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ABSTRACT

The purpose of this monograph is to provide students, teachers, counselors, and parents with a broad overview of career opportunities available in the visual arts. The monograph is organized into four broad occupational areas: designers, studio artists, educators, and technical artists. Included under each heading is information regarding the character of employment, places of employment, training requirements, and occupational outlook. In addition to identifying the various arts occupational areas, the monograph lists the names of national organizations to consult for more detailed information on specific occupational areas. Three appendixes provide short job activity descriptions for a select number of careers in each visual arts career category and identify a number of postsecondary education institutions where a student may receive formal training. (LRA)

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CAREERS IN THE VISUAL ARTS: OPTIONS, TRAINING, AND EMPLOYMENT

Monograph No. 3

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PREFACE

We are deeply indebted to Ted Zernich for the research, development, and editorship of *Careers in the Visual Arts*, which is certain to become one of the most comprehensive and functional publications on art careers available in the art teaching profession. As a part of the NAEA Career Education Project, the purpose of this monograph is to provide students, teachers, counselors, and parents with a broad overview of career opportunities available in the visual arts.

Zernich has organized the monograph into four broad occuptional areas: designer, studio artist, educator, and technical artist. Included under each heading is information regarding the character of employment, places of employment, training requirements, and occupational outlook. For those wanting to know more about specific art jobs, over 150 different art and art related job descriptions are provided in the publication.

In addition to identifying the various arts occupational areas, the monograph lists the names of national organizations to consult for more detailed information on specific occupational areas; also included are State agencies, schools, and colleges within the 50 States which can assist students in locating sources of training for specific occupations. *Careers in the Visual Arts* should make students, counselors, teachers, and parents truly aware of the broad range of opportunities for employment in art and art related professions.

CHARLES M. DORN, DIRECTOR
NAEA ART CAREER EDUCATION PROJECT

CAREERS IN THE VISUAL ARTS: OPTIONS, TRAINING, EMPLOYMENT

The purpose of this monograph is to provide students, teachers, counselors, and parents with an overview of career opportunities and related career information in the visual arts. The main body of this monograph briefly describes the general categories of careers in the visual arts, places of employment, minimum requirements for training, employment outlook for the next several years, and a rough approximation of earnings. The appendices provide short job activity descriptions for a select number of careers in each visual arts career category, and identify a number of postsecondary educational institutions where a student may receive formal training.

Few students, parents, counselors, or professionals in the visual arts have a working knowledge of the range of careers available within the visual arts. Information that counselors routinely make available to students interested in legal, medical, mechanical, or agricultural careers is not easily accessible to students interested in visual arts careers. Instead, counselors and teachers must collect information about the visual arts from a number of governmental, industrial, and educational resources. Consequently, this monograph and the attached appendices are offered in the spirit that important information about careers in the visual arts can be conveniently organized and that more informed career choices can be made by all participants in the decision making process.

THE IMPORTANCE OF THE VISUAL ARTS

During the past forty years, and the last fifteen in particular, America has experienced an unprecedented expansion of public and private support for

10 the visual arts. In a joint resolution sponsored by the House of Representatives and the Senate, strong and unqualified endorsement of arts activities in the United States is believed to be in the best interest of the nation's life and heritage. One measure of this commitment is the growth of the National Endowment for the Arts. In 1965, the National Endowment for the Arts had a budget of approximately three million dollars, whereas in 1979 its budget was approximately 150 million dollars. Private industry has increased its contribution to the arts from 21 million dollars in 1965 to over 220 million dollars in 1976. While this contribution represents a substantial amount of money, it is expected that corporations will double this amount over the next decade.

The visual arts are an integral part of our perceptions and our lives. Today, more than ever, our culture and its institutions recognize the visual arts as a basic and important element for all people. Americans endorse the value of the visual arts by attending museums at the rate of twice that of athletic events and by encouraging social service and industrial concerns to offer a greater number of arts events. More people from all age, education, and income levels want easy access to the visual arts. People believe that the visual arts are important. They believe the visual arts play a major role in the transmission of our cultural heritage and furthermore serve as a means for maintaining and expressing our cultural values. In other ways, the visual arts decorate and enhance our environment, design our industrial and commercial products, transmit information that is not available from other sources in our culture, and contrast the technological aspects of our lives. The alliance among our people, our public institutions, and the private sector more than anything represents the importance of the visual arts in our culture. While the art of earlier centuries was generally made by the few for the few, today we can observe enormous growth in the participation and support of the visual arts by all segments of our culture.

CAREERS IN THE VISUAL ARTS AND THE GENERAL WORK FORCE

Careers in the visual arts are best characterized by the term "diversity." It is difficult to specify all possible careers within the visual arts, and furthermore, subspecialities within careers make the task all the more difficult. The Department of Labor categorizes careers in the visual arts under the general classification "Professional, Technical, and Kindred Workers" with a subcategory of "Writers, Artists, and Entertainers." An analysis of occupations within art related careers shows 53 categories of designer, 90 categories of painter and sculptor, 21 categories of photographer, and one each for art critic, art

teacher, and art editor. In light of the fact that there is such diversity in visual arts related careers, readers of this monograph will be best served by reading each general category of design, education, studio arts, and technical arts, and examining the representative listing of careers within those categories at the end of each section.

The purpose of these listings is to demonstrate the remarkable diversity of careers within the broad categories of design, studio artist, and technical artist. The activity descriptors which follow each section represent summaries from the *Dictionary of Occupational Titles* published by the Department of Labor.

The 1970 Classified Index of Industries and Occupations listed approximately 23,000 occupational titles in fourteen broad occupational categories. Of these general occupational categories, approximately 32% of the workers in this country produce goods, while approximately 68% of the workers provide service. The arts are viewed as service careers, while occupations such as agriculture, mining, and manufacturing are viewed as production careers. Of the roughly 100 million workers in this country, the arts represent 2% of the work force, and the visual arts represent about one-half of that total. While this may appear to be a small proportion of the total force, it accurately represents the role of the visual arts as a specialty career and competes favorably with other careers. For example, social scientists represent 0.5% of the work force, social service 1%, scientific and technical fields 3%, transportation 3.5%, and health fields 5%. This figure does not include the enormous number of persons who regularly involve themselves in the visual arts as an avocation.

Professionals in the visual arts are an urban population. This is most clearly demonstrated by the fact that nearly 90% of all professionals in the visual arts live in urban areas, and approximately 25% of those live in the three largest metropolitan areas of New York, Los Angeles, and Chicago.

In contrast to the myth of the artist as an unconventional and noninstitutional personality, more than two of every three artists are employed by institutions in either the private or public sector. Furthermore, professional artists associated with an institution tend to earn more income than those unaffiliated with an institution. Department of Labor projections indicate that occupations and employment in the visual arts will grow as fast as the average growth for all occupations in the service and private sectors of the economy, but as in other occupations competition for the best opportunities will be as difficult as ever. The most important steps in competing for a good job in the visual arts are to receive a good education and seek employment in an urban area.

Not all careers in the visual arts require equal amounts of training, innovation, or specificity of communication. Some activities in the visual arts require a great deal of precision in the communication of ideas, while others tolerate more ambiguity. Some careers in the visual arts require certification or licensing before a person can work; others do not. And some careers in the visual arts require a great deal of innovation, while others are more systematic and predictable. The following summaries of careers in the visual arts are offered as an introduction for students considering careers in these areas. It is strongly recommended that students discuss details of these careers with members of that profession.

BROAD CATEGORIES OF CAREERS IN THE VISUAL ARTS

This section of the monograph provides a brief overview of broadly based categories of careers in the visual arts. It is not intended to answer all questions about these careers, but only to identify their essential characteristics, and to enable prospective professionals to develop a context for making a determination about a potential career choice.

These descriptions are organized in the following manner: (a) by career category; (b) nature of work; (c) places of employment; (d) training; (e) employment outlook; and (f) approximate earnings. It is important to understand that the Department of Labor does not specifically identify employment and earnings data for occupations in the visual arts. Instead, they are organized into broad groups. Therefore, the information offered reflects these large classifications.

DESIGN FIELDS

Types of design careers and places of employment. There are a wide variety of occupations within the design fields. They range from set and stage design to consumer product design to communication design. Consequently, designers tend to be directly connected to the commercial and industrial components of our culture, and to a lesser extent they are employed by educational and governmental institutions.

The largest category of professional within the design field is the graphic or commercial designer. Graphic designers tend to design two-dimensional items such as brochures, books, posters, magazine and newspaper advertisements, and corporate symbols; and they frequently combine typographic elements with visual images. There are many different occupations

within the graphic design fields, which include illustration, photography, layout, marketing, and the like.

The next largest category in the design occupations is the interior designer. Interior designers focus their efforts on the organization of residential and industrial living and working areas in order to enhance the objectives and purposes of those environments. Interior designers are frequently self-employed, but they also are employees of architectural firms, department stores, and occasionally hotels, automotive companies, restaurants, and other related industries.

Architects design structures for residential, commercial, or industrial use that combine elements of function, attractiveness, and safety. They are involved in all phases of the planning and building of a project, including the general preliminary discussions to the completion of the structure. Architects are frequently self-employed, but for the most part they work in small partnerships or larger commercial firms. A smaller number of architects work for governmental agencies at the local, regional, State, and national levels as designer, engineers, project supervisors, and consultants for a variety of planning or regulatory needs. Before becoming an unrestricted practicing member of the architectural profession, architects must be licensed by the State in which they reside.

Industrial designers concentrate their efforts on the stylistic and related functional considerations of consumer products and to a lesser extent on large industrial or technological items. The principal function of the industrial designer in either case is to improve the efficiency of production of the designed object as well as its appearance. Given the nature of the industrial designer's work, they tend to work with private firms that design industrial and consumer products, or work directly for industrial and commercial firms. A much smaller proportion of industrial designers work for educational or governmental institutions.

As opposed to architects, landscape architects focus their efforts on the design of outside environments for residential, public, or commercial use with particular attention given to the functional or aesthetic needs of these areas. Landscape architects, like other designers can be self-employed or work for small or large firms and local, State, or national governmental agencies. A very small proportion of landscape architects work for educational agencies.

There are a number of other design occupations that have less established opportunities for employment. These include currency designers, pattern designers, stonework or memorial designers, set or stage designers, and the like. However, designers trained in one of the more traditional design areas seem to have a great deal of occupational mobility within the broad spectrum of design occupations, and frequently serve as technical artists.

Training. An overwhelming majority of professionals within the design occupations have completed some form of postsecondary education in design, usually four years, and approximately 50% have advanced degrees. Consequently, a person interested in a career related to one of the design occupations should plan on attending an art school or a university in order to receive an education that would permit entry to the field. There tends to be an observable educational difference between designers trained at art schools or universities. Art schools focus on technical aspects of the design

field, whereas universities generally focus on a more balanced education which includes coursework in the humanities, business, social sciences, physical sciences, as well as the necessary art and design areas. On balance, members of the design occupations have good representational skills in both two-dimensional and three-dimensional media. They tend to be creative, innovative persons with a willingness to meet the needs of the client they are serving. Their ability to blend creative and perceptive behaviors with market needs will determine to a large extent their ability to succeed.

Employment and earnings outlook. Over the next several years, employment opportunities for fields within the design occupations will increase as fast as other occupations, but as usual, individuals with superior talents will find many more opportunities for employment and advancement. The growth in population, personal incomes of Americans, and a greater concern than at any point in our history for tastefully designed items and environments insure a steady increase in opportunities. Since the average age of designers is near the mid-forties, opportunities for employment in these areas are directly tied to consumer spending habits, and less directly to retirements.

The earnings of designers vary greatly, with only a few members of the profession earning in excess of $50,000.00. For the most part, experienced designers average more income than the average worker. In addition, designers tend not to experience much unemployment. In fact, of all the occupations within the visual arts, designers have the lowest unemployment rate, around 3%. In terms of working hours, designers tend to follow normal workday hours, but the pressures of deadlines will occasionally require longer than normal working hours.

More specific information about training and about career opportunities can be obtained by writing to:

Industrial Design Society of America
60 West 55th Street
New York, New York 10019

American Society of Interior Design
730 Fifth Avenue
New York, New York 10019

American Institute of Graphic Arts
1059 Third Avenue
New York, New York 10021

The American Institute of Architects
1735 New York Avenue, NW
Washington, DC 20006

American Society of Landscape Architecture
1750 Old Meadow Road
McLean, Virginia 22101

ESIGN OCCUPATIONS

ARCHITECT

Provides professional services in research, development, design, construction, alteration, or repair of real property such as private residences, office buildings, theaters, public buildings, or factories. Consults with client to determine functional and spatial requirements and prepares information regarding design, specifications, materials, equipment, estimated costs, and building time.

ARCHITECT, MARINE (naval designer)

Designs and oversees construction and repair of marine craft and floating structures, such as ships, barges, tugs, dredges, submarines, torpedoes, floats, and buoys. Studies design proposals and specifications to establish basic characteristics of craft, such as size, weight, speed, propulsion, armament, cargo, displacement, draft, crew and passenger complements, and fresh or salt water service.

ART DIRECTOR (motion pic.; radio & tv broad.)

Formulates design concepts; selects locations and settings; and directs and coordinates set design, construction, and erection activities to produce sets for motion picture and television productions: Reads script and confers with heads of production and direction to establish budget, schedules, and determine setting requirements. Conducts research and consults experts to establish architectural styles which accurately depict given periods and locations. Estimates construction costs and presents plans and estimates for approval. Directs and coordinates set construction, erection, and decoration activities.

ART DIRECTOR

Formulates concepts and supervises workers engaged in executing layout designs for art work and copy to be presented by visual communications media, such as magazines, books, newspapers, television, posters, and packaging. Assigns and directs staff members.

BANK-NOTE DESIGNER

Designs engraving plate for printing government securities, such as currency, stamps, and bonds, according to preliminary drawings and knowledge of engraving and printing techniques.

16 **CARTOONIST (print. & pub.)**

Draws cartoons for publications to amuse readers and interpret or illustrate news highlights, advertising, stories, or articles. May develop and draw comic strips.

CARTOONIST, MOTION PICTURES (animated-cartoon artist; animator)

Draws animated cartoons for use in motion picture or television. Renders series of sequential drawings of characters or other subject material which when photographed and projected at specific speed becomes animated.

CLOTHES DESIGNER (fashion designer)

Designs men's, women's, and children's garments, shoes, and handbags. Analyzes trends and predictions; confers with sales and management executives; compares leather, fabrics, and other apparel materials; and integrates findings with personal interests, tastes, and knowledge of design to create new apparel designs. Sketches rough and detailed drawings of apparel and writes specifications describing factors such as color scheme, construction, and type of material to be used.

CLOTH DESIGNER (pattern designer; textile stylist)

Originates designs for fabrication of cloth, specifying weave pattern, color, and gage of thread, to create new fabrics according to functional requirements and fashion preferences of consumer. Sketches designs for patterns on graph paper, using water colors, brushes, pens, and rulers, or prepares written instructions to specify details, such as finish, color and construction of fabric.

COMMERCIAL DESIGNER

Creates and designs graphic material for use as ornamentation, illustration, advertising, or cosmetic on manufactured materials and packaging. Studies traditional, period, and contemporary design styles and motifs to obtain perspective. Creates, draws, modifies, and changes design to achieve desired effect.

DIRECTOR OF PHOTOGRAPHY

Plans, directs, and coordinates motion picture filming. Selects cameras, accessories, equipment, and film stock, utilizing knowledge of filming techniques, filming requirements, and computations. Instructs camera operators regarding camera setup, angles, distances, movement, and other variables; and signals cues for starting and stopping filming. Views film after processing and makes adjustments.

DISPLAY DESIGNER (display and banner designer; flag decorator and designer)

Designs displays, using paper, cloth, plastic, and other material to decorate streets, fairgrounds, buildings, and other places for celebrations, fairs, and special occasions. Plans display and sketches rough design for client's approval.

DRAFTER, AUTOMOTIVE DESIGN 14

Designs and drafts working layouts and master drawings of automotive vehicle components, assemblies, and systems. Draws rough sketches and performs mathematical computations to develop design and work out detailed specifications of components. Confers with AUTOMOTIVE ENGINEER (auto. mfg.) and others on staff to resolve design problems.

ENGRAVER, BLOCK (woodblock; block cutter; engraver, wood; woodcut engraver, woodtype finisher)

Carves designs and lettering in wooden blocks or rollers used to print articles, such as cloth, greeting cards, and posters following sketch or photograph, using gravers handtools and machines.

FASHION ARTIST

Draws or paints apparel and accessory illustrations for newspaper or related advertisements. Renders drawing of garment or accessory.

FLORAL DESIGNER (florist)

Designs and fashions live, cut, dried, and artificial floral and foliar arrangements for events, such as holidays, anniversaries, weddings, balls, and funerals: Trims material and arranges bouquets, sprays, wreaths, dish gardens, terrariums, and other items, using wire, pins, floral tape, foam, trimmers, cutters, shapers, and other materials and tools.

FORM DESIGNER

Develops office forms, such as invoices and production sheets according to clients' specification. Draws and submits initial draft to client.

FURNITURE DESIGNER

Designs furniture for manufacture, according to knowledge of design trends, offerings of competition, production costs, capability of production facilities, and characteristics of company's market: Sketches freehand design of article. Prepares itemized production requirements to produce item. Prepares or directs preparation of blueprints containing manufacturing specifications, such as dimensions, kind of wood, and upholstery fabrics to be used in manufacturing article.

GLASS DECORATOR

Etches or cuts artistic designs in glass articles, such as bowls, vases, and stemware, using acid solutions, sandblasting equipment, and design patterns.

GRAPHIC DESIGNER (layout artist)

Designs art and copy layouts for material to be presented by visual communications media, such as books, magazines, newspapers, television, and packaging. Determines size and arrangement of illustrative material and copy. Draws sample of finished layout and presents to ART DIRECTOR (profess. & Kin.) for approval.

ILLUSTRATOR (artist; commercial artist; graphic artist)

Draws or paints illustrations for use by various media to explain or adorn

18 printed or spoken word. Determines style, technique, and medium best suited to produce desired effects. Formulates concept and renders illustration and detail from models, sketches, memory, and imagination.

ILLUSTRATOR, MEDICAL AND SCIENTIFIC (artist, scientific)

Makes sketches and constructs tridimensional models to illustrate surgical and medical research procedures, anatomical and pathological specimens, unusual clinical disorders, micro-organisms, and plant and animal tissue. Develops drawings, paintings, diagrams,and models illustrating medical findings for use in publications, exhibits, consultations, research, and teaching activities.

ILLUSTRATOR, SET

Plans, develops, and prepares illustrations of scenes and backgrounds against which action is filmed for use in motion picture or television production.

INDUSTRIAL DESIGNER

Originates and develops ideas to design the form of manufactured products. Evaluates design ideas based on factors such as appealing appearance, design-function relationships, serviceability, materials and methods engineering, application, budget, price, production costs, methods of production, market characteristics, and client specifications. Integrates findings and concepts and sketches design ideas. Presents design to client or design committee and discusses need for modification and change.

INSTRUCTOR, PAINTING

Selects and recommends materials for customers' use in ornamental painting, such as on plaques, lampshades, and fabrics. Demonstrates painting techniques.

INTERIOR DESIGNER

Plans, designs, and furnishes interior environments of residential, commercial, and industrial buildings. Confers with client to determine architectural preferences, purpose and function of environment, budget, types of construction, equipment to be installed, and other factors which affect planning interior environments. Advises client on interior design factors, such as space planning; layout and utilization of furnishings and equipment, color schemes, and color coordination. Renders design ideas in form of paste ups, drawings, or illustrations; estimates material requirements and costs; and presents design to client for approval. Selects or designs and purchases furnishings, art works, and accessories.

LANDSCAPE ARCHITECT (community planner; environmental planner, land planner; site planner)

Plans and designs development of land areas for projects, such as parks and other recreational facilities, airports, highways, and parkways, hospitals, schools, land subdivisions, and commercial, industrial, and residential areas. Compiles and analyzes data on such site conditions as geographic location; soil, vegetation and rock features; drainage; and location of struc-

tures for preparation of environmental impact report and development of landscaping plans. Prepares site plans, working drawings, specifications, and cost estimates for land development.

LAY-OUT FORMER

Prepares advertising layout for reproduction according to customer specifications, utilizing knowledge of display techniques. Draws functional and decorative borders around layout, using marking and measuring instruments.

LETTERER (commerical artist, lettering)

Paints or draws precise lettering to be reproduced in advertisements, books, and other printed materials, using lettering pen or brush and determining lettering design from layout sketches and instructions.

MANAGER, DISPLAY

Develops advertising displays for window or interior use and supervises and coordinates activities of workers engaged in laying out and assembling displays: Develops layout and selects theme, colors, and props.

MEMORIAL DESIGNER (stonework)

Designs and builds plaster models of monuments, statues, and memorials. Draws sketches and detailed plans of memorial according to customer's suggestions. Casts plaster block and carves design in block.

ORNAMENTAL-METALWORK DESIGNER (art-metal designer)

Designs ornamental metal items, such as grills, lattice work, statuary, railings, displays, plaques, and light fixtures, and tooling for fabrication, utilizing knowledge of properties of metal, fabrication techniques, principles of design, and artistic talent: Draws detail sketches and prescribes fabricating techniques.

PACKAGE DESIGNER

Designs containers for products, such as foods, beverages, toiletries, cigarettes, and medicines: Sketches design of container for specific product, considering factors, such as convenience in handling and storing, distinctiveness for identification by consumer, and simplicity to minimize production costs. Renders design. Typically fabricates model in paper, wood, glass, plastic, or metal.

PRINTER, HAND (artist; decorator; filler-in tinter)

Paints decorative freehand designs on objects, such as pottery, cigarette cases, and lampshades, using hand brushes: Sketches design. Paints freehand or within sketched design.

PRINTER, SIGN (letterer)

Designs, lays out, and paints letters and designs to create signs, using measuring and drawing instruments, brushes, and handtools: Sketches design on paper. Lays out design. Sketches or follows pattern to draw design or lettering onto objects. Brushes paint to fill in outline or sketch of sign.

20 **QUICK SKETCH ARTIST**

Sketches likeness of customers: Poses subject to accentuate most pleasing features and draws likeness, using pencil, charcoal, pastels, or other medium.

SAFETY-CLOTHING-AND-EQUIPMENT DEVELOPER

Designs safety clothing and equipment to protect personnel against hazards, such as fire and toxic fumes. Designs clothing and equipment, such as suits, helmets, and gloves, incorporating such devices as mechanical breathing apparatus and communication systems to meet specific hazards. Drafts pattern of garment parts.

SET DECORATOR

Selects decorations and coordinates activities of workers who decorate sets for motion picture or television production. Selects furniture, draperies, pictures, lamps, and rugs for decorative quality and appearance on film.

SET DESIGNER (motion pic.; radio & tv broad.)

Designs motion picture sets and scenic effects and prepares scale drawings for use in construction, modification, or alternation: Performs duties of DRAFTER to prepare rough and scale working drawings of set.

SET DESIGNER (scenic designer; theatrical-scenic designer)

Designs sets for theatrical productions: Conducts research to determine appropriate architectural and furnishing styles. Renders drawing or illustration of design concept, estimates costs, and presents drawing for approval. Prepares working drawings of floor plan, front elevation, scenery, and properties to be constructed. Prepares charts.

SIGNS WRITER, HAND (card writer, hand; show-card writer)

Writes, paints, or prints signs or showcards used for display or other purposes, using brushes.

SILHOUETTE ARTIST

Cuts silhouettes of customers: Poses subject to present pleasing profile and cuts freehand outline of profile from paper (silhouette).

SKETCH MAKER, PHOTOENGRAVING (artist, color separation)

Sketches cloth designs onto transparent paper for subsequent transfer to printing rollers by photographic process, using drafting tools and artists' work aids: Corrects flaws left in design by artist or designer and alters design to make it practical for printing, employing knowledge of fabrics, colors, and etching and printing.

STONE CARVER (hand carver; sculptor)

Carves designs and figures in full and bas-relief on stone, employing knowledge of stone-carving techniques and sense of artistry to produce carving consistent with designer's plans: Lays out figures or designs on stone surface by freehand sketching. Roughs out design freehand or by chipping along marks on stone, using mallet and chisel or pneumatic tool. Shapes,

trims, or touches up roughed out design.

SUPERVISOR, SCENIC ARTS
Creates layouts of scenery and backdrops for motion picture and television sets according to instructions, and supervises and coordinates activities of artists who paint them. Confers with ART DIRECTOR regarding details of background against which action is to be photographed.

THROWER (pottery & porcelain)
Molds plastic clay into such ware as vases, urns, saggers, and pitchers, as clay revolves on potter's wheel.

TOOL DESIGNER (tool-and-equipment design specialist)
Designs broaches, milling machine cutters, drills, and other single-or-multiple-edged cutting tools, and related jigs, dies, and fixtures for production or experimental use in metalworking machines. Applies algebraic and geometric formulas and standard tool engineering data to develop tool configuration. Draws preliminary sketches and prepares layout and detailed drawings.

DUCATORS

Types of teaching careers and places of employment. Visual arts education includes those areas directly involved with teaching services. Each category of the visual arts has its instructional component at the university level and to a lesser extent at the secondary level. Instructional services at the university level tend to be specific, that is, a person may teach painting, ceramics, sculpture, or art history, and little if anything else; whereas, instruction at the secondary or elementary level is of a general nature, that is, the instructor must be proficient in a number of specialities in the visual arts, including knowledge of art history and art criticism.

Persons electing careers as art teachers at the elementary or secondary level will direct their efforts to general survey courses in the studio arts that enable students to receive a broadly based orientation to the visual arts. In addition to providing instructional services to students, art teachers frequently provide instruction for adults during after school hours. Furthermore, art teachers are responsible for the organization of their classroom, the ordering of supplies, and occasionally the maintenance of tools and equipment.

Persons electing careers as teachers in junior colleges and universities do not usually teach as many different subjects within the visual arts as teachers

at the elementary and secondary levels. In addition, while elementary and secondary teachers of art teach classes that are shorter in length, e.g., usually fifty minutes or less, studio classes at the community college and university level are approximately two hours in length and sometimes three hours in length. Thus, students tend to experience a more intense studio experience at postsecondary levels as opposed to the secondary and, certainly, the elementary levels. In addition to instructional responsibilities, teachers at this level have advising responsibilities and general departmental or institutional committee assignments. On balance, however, persons teaching art at the postsecondary levels do not have as many direct contact hours with students as persons teaching at the elementary and secondary levels. In addition to instructional, advising, and committee responsibilities, persons at this level are required to refine their specific studio or scholarly skills by continuous professional development. The perceived quality of this development is determined by the number of exhibitions to which a person has his work admitted, articles published, or awards received. In general, these extracurricular activities are not required of teachers in elementary or secondary schools.

The overwhelming number of teaching positions in the visual arts are to be found at the various public and private educational institutions that deliver instructional services to people of all ages. Only a very small proportion of teaching opportunities are to be found in other social service institutions such as museums, hospitals, park districts, and residential homes for the aged, mentally retarded, or adolescents. Except for park districts, the financial condition of these related social service agencies does not provide an opportunity for consistent and systematic hiring programs. It has only been within the past decade that park districts have added visual arts personnel on a permanent basis. Nevertheless, only a small number of art teachers find employment with park districts.

Training. For the most part, all personnel that provide instructional services within educational institutions, public or private, have a college degree with a speciality in the visual arts. In addition, advanced degrees in education, the studio areas, or art history tend to be commonly found at the elementary and secondary levels and are mandatory at the postsecondary levels. An additional requirement of state certification is necessary to teach at the elementary or secondary level, but not for the postsecondary levels.

Employment and earnings outlook. The employment outlook for all levels of education has been declining for a number of years. Thus, opportunities for employment will be restricted, and competition for these positions will be keen. While the arts have always received better than average representation in educational institutions located in the large industrial states of the East and Middlewest, these states are expected to suffer population and industrial declines. On the other hand, the Southwest and Southern regions of this country have been experiencing population and industrial gains. Given that the arts enjoy a brighter existence in our metropolitan areas, it is expected that there will be more employment opportunities for persons willing to relocate to regions experiencing growth.

Starting salaries for persons interested in visual arts education vary with the amount of formal education, wealth of the employing educational institution, and speciality of the subject to be taught. However, salaries for

teachers at the elementary and secondary levels averaged about $15,000. Salaries for persons employed at the postsecondary levels vary greatly and may range from a low of $9,500 to over $30,000.

More information about training and career opportunities can be obtained by writing to:

National Art Education Association
1916 Association Drive
Reston, Virginia
22091

EDUCATIONAL OCCUPATIONS

ART CONSULTANT: (elementary)

Works with teachers, rather than the students; obtains materials; and sets up programs, projects, and teaching techniques. Is classroom teachers' art advisor and works with them throughout a number of schools.

ART THERAPIST:

Plans and conducts art therapy program in public and private institutions to rehabilitate mentally ill and physically disabled patients: Devises program and instructs patients in art techniques.

CURATOR: (museum)

Directs and coordinates activities of workers engaged in operating exhibiting institutions, such as museum, botanical garden, arboretum, art gallery, herbarium, or zoo: Directs activities concerned with instructional, acquisition, exhibitory, safekeeping, research, and public service objectives of institution. Administers affairs of institution by corresponding and negotiating with administrators of other institutions to obtain exchange of loan collections or to exchange information or data, maintaining inventories, preparing budget. Obtains, develops, and organizes new collections to expand and improve educational and research facilities.

LIBRARIAN:

Maintains library collections of books, serial publications, documents, audiovisual, and other materials, and assists groups and individuals in locating and obtaining materials: Furnishes information on library activities, facilities, rules, and services. Explains and assists in use of reference sources, such as card or book catalog or book and periodical indexes to locate information,

24 Maintains reference and circulation materials. May select, order, catalog, and classify materials.

LIBRARIAN, SPECIAL LIBRARY:
Manages library or section containing specialized materials for industrial, commercial, or governmental organizations, or for such institutions as school and hospitals. Selects, orders, catalogs, and classifies special collections of technical books.

MANUAL-ARTS THERAPIST:
Instructs patients in prescribed manual arts activities to prevent anatomical and physiological decondit oning, and to assist in maintaining, improving, or developing work-simulated work situations and activities, such as woodworking, photography, metalworking, agriculture, electricity, and graphic arts.

MUSEUM ART TEACHER:
Offers studio classes to youngsters at the elementary, junior, and senior high levels, provides services to the public schools. Conducts tours, lectures, and discussions. Goes to the schools with instruction involving collections, slides, and reproductions.

SUPERVISOR, HISTORIC SITES:
Directs and coordinates activities of personnel engaged in investigating, acquiring, marking, improving, and preserving historic sites and natural phenomena in conformity with State policy. Authorizes acquisition and improvement of sites, such as historic homes and battlefields, within allocated budget.

SUPERVISOR, SCHOOL ART:
Establishes the objectives and goals of the art program for the entire school system. Is responsible for coordinating the efforts of the teachers in order to meet those objectives. Links the art program to other facets of the school system and the community.

TEACHER, ART: (elementary, secondary, college)
Instructs pupils in art, such as painting, sketching, designing, and sculpturing. Demonstrates method and procedure to pupils.

TUDIO ARTISTS

Types of studio careers and places of employment. The studio arts include the areas of ceramics, jewelry and metalsmithing, painting, photography, printmaking, sculpture, and related areas which require the artist to produce a one-of-a-kind object or experience whose primary intention is to elicit an aesthetic response. The products of the studio artist are extraordinarily varied, but the common thread is the issue of aesthetic response.

Although the technical procedures and media vary within the category of studio artist, the conception, development, and completion of the object is generally done by the artist. There are exceptions to this when the artist wishes to take advantage of particular commercial technical expertise, such as, lithographic technicians, foundry workers for casting of bronze or other metals, assistance in the production and completion of monumental works, or other complex techniques in which the artist does not have the skill, interest, or time necessary to complete the project.

Studio artists are generally self-employed. That is, they hope to produce a sufficient amount of income that will enable them to devote all of their working time to their art. Within the category of studio artist, potters and weavers tend to be able to survive independently of some institutional affiliation because their work has more marketability, whereas, sculptors and painters tend to have the least popular marketability. While some studio artists work within commercial and industrial firms or within educational and governmental agencies, for the most part, work of this nature is not always devoted to the issue of one-of-a-kind art. For example, the government frequently commissions artists to document events or commemorate specific persons; commercial and industrial enterprises use jewelers, painters, potters, printmakers, sculptors, and weavers for particular commercial purposes; and each of the general categories of studio artist can find employment within an educational institution. But in each case, personal expression must give way to institutional need.

Training. Over ninety percent of the members of the studio arts categories have advanced degrees. The principal sources of training for careers in the studio arts are universities and art schools. The nature of education is relatively consistent across the nation, but the major difference between art schools and universities is to be found in the range of coursework taken by students enrolled at each institution. While students at art schools take fewer academic subjects, students at universities take more coursework in the sciences, humanities, language, and related general education courses.

Employment and earnings outlook. Critical acclaim in the studio arts is

extraordinarily difficult to achieve, and the number of talented persons entering the profession exceeds the opportunity for acclaim. Since critical acclaim and financial success tend to go hand in hand, and the average income of studio artists unaffiliated with any institution is substantially lower than those affiliated with institutions, the overwhelming number of persons in the studio arts supplement their income by teaching or by employment in other service occupations such as retailing, food services, transportation, and the like. Furthermore, acclaim seldom comes before middle age. Consequently, only the most determined and talented tend to manage long term successful carerrs in the studio arts independent of other consistent sources of income.

Because of the difficulties in acquiring critical acclaim, the length of time devoted to a career as a full-time studio artist is irregular and short. However, it is important to note that the number of persons entering the visual arts professions has been increasing at approximately 5% per year since 1970, with the largest proportion of that increase going to persons in the studio arts.

More specific information about training and career opportunities can be obtained by writing to:

National Association of Schools of Art
1 Dupont Circle, N.W.
Washington, D.C. 20036

National Art Education Association
1916 Association Drive
Reston, Virginia 22091

STUDIO ARTIST OCCUPATIONS

CERAMIST

Conceives and designs ceramic objects that may be utilitarian and expressive in nature. Requires knowledge of various clay materials, glazes,and firing techniques. In addition, must be knowledgeable in various forming techniques such as throwing, casting, and modeling.

JEWELER

Conceives and develops preliminary sketches into metal, wood, or stone objects for body ornamentation and expressive purposes. Metals typically used include gold, silver, bronze, or copper, and requires knowledge of materials, construction, and finishing procedures.

PAINTER (artist)

Paints variety of original subject material, such as landscapes, portraits, still lifes, and abstracts, using watercolors, oils, acrylics, tempera, or other paint mediums. Conceives and develops ideas for painting, based on assignment, personality, interests, and knowledge of painting methods and techniques.

PRINTMAKER

Conceives and develops drawings and other art work and prepares printmaking medium used to print fine arts graphics: Renders art work on stone, metal, wood, linoleum, or other material, using various tools, procedures, and processes to etch, engrave, carve, paint, draw, or perform some similar operation, utilizing knowledge of art and printing to prepare image capable of being transferred. Examines proofs and makes corrections to art work, if necessary.

SCULPTOR

Designs and constructs three-dimensional art works, utilizing any combination of mediums, methods, and techniques. May specialize in one technique or medium and be identified accordingly.

STAINED GLASS ARTIST

Creates original stained glass designs and artwork, draws cartoons, and prepares glass for fabrication into windows, art objects, and other decorative articles. Consults clients regarding theme and subject to be portrayed. Studies styles of building architecture and shape of windows to plan conforming. Integrates knowledge of glass cutting, stresses, portraiture, symbolism, heraldry, ornamental styles, and related factors with functional requirements to conceptualize design idea. Renders illustration of design detail, estimates costs, and presents to client for approval. Transfers cartoon or design into pattern, selects colored glass, cuts glass according to pattern, and assembles into final piece.

WEAVER

Designs and constructs three-dimensional art work utilizing fiber and occasionally other natural or man-made materials into objects such as decorative pillows, clothing, or wall hangings. Works with a loom or loom-like structures to construct objects, but can also make objects without the use of a loom.

TECHNICAL ARTISTS

Types of technical careers and places of employment. The category of technical artist overlaps into the category of designer; that is, technical artists share some career and job similarities with industrial and graphic designers, but in other respects technical design is more narrowly defined. The category of technical artist suggests that there is less freedom for artistic innovation, and that the work is functionally oriented. Technical artists include, but are not limited to, persons with a strong interest in craftsmanship and the application of sound design knowledge to specific industrial or consumer products. Some products technical artists may design are protective clothing and equipment and scientific equipment; they may design environments for specific functions, or illustrate in two- or three-dimensional form models explaining medical or scientific conditions or procedures, and models for automotive or aerospace parts.

Although some technical artists are self-employed, the overwhelming majority are employed by industrial and commercial establishments. While some technical artists specialize in particular areas, for example, medical illustration, aerospace technical manuals, and the like, for the most part technical artists may have several specialities and may move from project to project as part of their workday routine. Given that the application of design and artistic expertise to technical problems can be diverse, many firms prefer to hire persons with several relevant skills rather than one. In general, technical artists can find career opportunities in industries such as aerospace, medicine, commercial printing, manufacturing, transportation, mechanics, and the like. In short, any industry that requires the general services of designers and artists with a technical orientation may provide technical artists with career opportunities.

Training. Entry to the various careers found under the category of technical artist tends to require a college or technical art school education. Persons without four-year degrees can advance to these positions, but only after substantial work experience and continuing education. The design and artistic proficiency required of technical artists do not encourage persons without formal training in these areas to compete for positions. While some technical artists take advance training, for the most part on-the-job training for persons with a minimum of four years of education supplemented by short term educational programs will be satisfactory for a successful career as a technical artist.

Employment and earnings outlook. Employment for technical artists is expected to rise at a slightly faster pace than employment in general.

Career opportunities will become available as industries that employ technical artists continue to grow, and at the same time as replacement of workers who retire or transfer to other related occupations occurs. Technological fields in general will provide the greatest opportunities for employment of technical artists.

Income for persons employed as technical artists tends to approximate those of industrial designers.

More information about training and career opportunities can be obtained by writing to:

Bureau of Labor Statistics
Division of Occupational Outlook
U.S. Department of Labor
Washington, D.C. 20212

Photographic Art and Science Foundation
111 Stratford Road
Des Plaines, Illinois 60016

TECHNICAL ARTIST OCCUPATIONS

AIRBRUSH ARTIST (photograph restorer)

Restores damaged and faded photographs or colors and shades drawings to simulate photographs, using airbrush: Examines drawing or photographic print to determine coloring, shading, and changes required.

ART CONSERVATOR (museum)

Coordinates activities of subordinates engaged in examination, repair, and conservation of art objects: Examines art objects to determine condition, need for repair, method of preservation, and authenticity.

ARTIST, MANNEQUIN COLORING

Applies paint or lacquer to paper maché mannequin to simulate parts of body and articles of clothing.

AUDIOVISUAL PRODUCTION SPECIALIST (instructional technology specialist)

Plans and produces audio, visual, and audiovisual material for communication, information, training, and learning purposes: Plans and develops, or directs assistants to develop, preproduction ideas into outlines, scripts, continuity, story boards, and graphics. Executes rough and finished graphics

30 and graphic design or directs assistants to execute them. Locates and secures settings, properties, effects, and other production necessities.

AUTO-DESIGN DETAILER
Drafts full-size or scale detail drawings of either auto-body or chassis parts.

BENDAY ARTIST (tint layer)
Applies ben-day tints (shadings in form of dots of different intensities) to drawings or to zinc or aluminum plates with inked screen or pattern.

BIOLOGICAL PHOTOGRAPHER
Photographs medical, biological, and allied phenomena to provide illustrations for scientific publications, records, and research and teaching activities. Makes still and motion picture reproductions of patients, anatomical structures, gross and microscopic specimens, plant and animal tissues, and physiological and pathological processes.

BOOKBINDER (bookmaker)
Cuts, sews, and glues components to bind books, using sewing machine, handpress, and handcutter.

CAMERA OPERATOR
Operates special camera to make animated cartoon motion picture films.

CAMERA OPERATOR, TITLE
Photographs title cards bearing foreign-language titles and dialogue on standard motion picture film for use with films for export.

COLORER (hand decorator; top-tile decorator)
Applies colored glazes to tile following stamped or outlined design: Applies glaze to design following color scheme on sketches.

COLOR EXPERT (color consultant; colorist, color specialist)
Advises clients relative to fashionable shades and color combinations in paper, paint, draperies, floor coverings for homes, offices, and other commercial establishments.

COLORIST, PHOTOGRAPHY (tinter, photograph)
Applies oil colors to portrait photographs to produce natural, lifelike appearance, according to specifications, using cotton swabs and brushes.

COLOR-PRINTER OPERATOR (photofinish)
Controls equipment to produce color prints from negatives.

COMPOSITOR (typesetter; typographer)
Sets type by hand and machine, and assembles type and cuts in a galley, for printing articles, headings, and other printed matter, determining type size, style, and compositional sequence, reading from copy. Prepares proof copy of setup. Examines proof for errors.

DELINEATOR (rendered)
Renders perspective drawings of buildings and manufactured products for display or advertising purposes working from sketches and blueprints and using pencil, pen, charcoal, watercolors, or airbrush.

DETAILER
Drafts detailed drawings of parts of machines or structures from rough or general design drawings. Shows dimensions, material to be used, and other information necessary to make detailed drawing clear and complete.

DETAILER, FURNITURE
Prepares detailed shop drawings in scale or full size, from blueprints of FURNITURE DESIGNER (furn.) showing methods of construction and upholstering, and indicating sizes and kinds of material to be used.

DETAILER, SCHOOL PHOTOGRAPHS
Performs a variety of tasks to prepare and disseminate school photographs: Reads photographers' work orders and records information, such as number of prints and type finish specified as a guide for processing film. Records customer charges on worksheet and submits to accounting department for billing. Cuts prints to prepare composite for group photographs, using chopping block, die, and mallet.

DIPPER (pottery & porc.)
Dips bisque ware, ceramic tile, or greenware in solution to cover article with protective glaze.

DOCUMENT RESTORER
Restores and preserves documents for libraries, archives, and private and public historical societies. Cleans document, using cleaning compounds to remove dirt and stains, and removes foreign matter, such as rusted clips, pins, rotted bands, and adhesives.

DRAFTER
Prepares clear, complete, and accurate working plans and detail drawings from rough or detailed sketches or notes for engineering or manufacturing purposes, according to specified dimensions. Makes final sketch of proposed drawing. Draws charts for representation of statistical data. Draws finished designs from sketches.

DRAFTER, ARCHITECTURAL
Performs duties of DRAFTER (profess. & kin.) by drawing artistic architectural and structural features of any class of buildings and like structures.

DRAFTER, AUTOMOTIVE DESIGN LAY-OUT
Prepares working layouts and master drawings of automotive vehicle components, assemblies or systems. Studies specifications, sketches notes, and other design data and measures prior layouts. Drafts master drawing of approved design on mylar, aluminum, or other materials. Specializes in lay-out.

32 **DRAFTER, COMMERCIAL**
Performs general duties of DRAFTER: laying out location of buildings, planning of arrangements in offices, large rooms, store buildings, and factories, and drawing of charts, forms, and records.

DRAFTER, LANDSCAPE
Prepares detailed scale drawings and tracings from rough sketches or other data provided by LANDSCAPE ARCHITECT. May prepare separate detailed site plan, grading and drainage plan, lighting plan, paving plan, irrigation plan, planting plan and drawings and detail of garden structures.

ENGRAVER (glassware engraver)
Engraves monograms, coats of arms, and ornamental designs on glass and glassware, using copper, steel, or stone wheels: Traces or sketches design on glass or glassware, using stencil and china-marking pencil, chalk, or brush pen.

ENGRAVER I (pantograph operator)
Engraves lettering or designs in copper or steel printing plates, using pantograph engraving machine.

ENGRAVER, PICTURE
Engraves metal dies to represent portraits, landscapes, figures and ornamental engravings used to make plates to print bonds, stamps, currency, diplomas, and other paper documents, following models and oral instruction.

ENGRAVER, RUBBER
Engraves rubber plates used in printing designs and lettering on fabric or other materials, using knife, mechanical drawing tools and handtools.

ENGROSSER (calligrapher; script artist)
Letters formal documents, such as diplomas, testimonials, charts, citations, and appointments, using pen and ink.

ETCHER HELPER, HAND
Assist ETCHER, HAND (print. & pub.) in etching designs on copper printing rollers: Trucks rollers from storage area to etching room.

FILM DEVELOPER
Operates machine to develop still or motion picture film. Examines film to determine type processing required, utilizing knowledge of film-developing techniques.

FILM INSPECTOR
Operates motion picture projector to inspect home movie film and visually examines slides for defects to determine need for reprocessing and repair: Randomly selects specified number of home movie reels and inserts reels in magazine of projector. Records findings on quality control sheet and notifies processing department personnel regarding need for machine adjustments

or customer regarding defective camera lens. Records type defect and reprocessing required on quality control form and routes form and defective slides to processing department.

FINE ARTS PACKER (museum)

Specifies types of packing materials, crating, containerization, and special handling procedures for shipping or storing art objects, scientific specimens, and historical artifacts to minimize damage and deterioration. Develops methods and procedures for packing or containerization of art objects, according to weight and characteristics of shipment. Designs special crates, modules, brackets, and traveling frames to meet insurance and museum shipping specifications.

FURNITURE REPRODUCER

Prepares working drawings and templates of antique or custom furniture to facilitate reproduction. Draws sketches of piece, freehand or with drawing instruments.

GLASS BLOWER, LABORATORY APPARATUS (glass technologist)

Develops specifications for, and blows and shapes glass laboratory apparatus, such as test tubes, retorts, and flasks, and glass components, for such apparatus as condensers, vacuum pumps, barometers, and thermometers: Develops customer's sketches into working plan. Blows tubing into specified forms.

GRAPHIC ARTS TECHNICIAN

Reproduces and assembles graphic arts materials performing any combination of the following tasks: Operates machine to type master copies, such as stencils, tracings, direct plates, and photo-offsets, in preparation for line copy reproduction. Operates offset-duplicating machine. Sets up and operates various type cameras.

INLAYER

Inserts or inlays pieces of leather, cloth, or paper in artistic formal patterns in surfaces of covered bookcases to form inlaid (mosaic) bindings.

INSPECTOR (pottery & porc.)

Examines ceramic and porcelain products at various stages of manufacture for defects and adherence to standards: Examines ware surfaces for defects, such as pin marks, glaze runs, chips, cracks, mold marks, and deformities. Maintains records of test results, and prepares analysis of defect causes based on test results.

LABORATORY CHIEF (Photographic-laboratory supervisor)

Supervises and coordinates activities of workers engaged in developing photographic prints from negatives, copying and enlarging prints, and in production of lantern slides, and airbrushing and retouching prints: Inspects finished film and prints for sharpness, color balance, and brilliance. Requisitions and distributes materials and supplies.

34 **LETTERER (raiser; sketcher)**
Copies outline of type from lead type proof to furnish pattern for processing steel type: Draws letter in detail, using drawing board, pencil, and paper.

LITHOGRAPHIC PLATE MAKER (composer, photomechanical; plate maker)
Transfers positive or negative images to metal plates to produce offset photolithographic printing plates, according to written or oral instructions, using liquid formulas, photocomposing machine, plate.

MAKE-UP ARRANGER
Arranges, groups, and locks galley setups of type, cuts, and headings in chases, according to dummy makeup sheet, for direct printing, reproduction proofs or fabrication of sterotype and electrotype plates.

MOUNTER, AUTOMATIC
Tends automatic mounting press that cuts film into individual transparencies, and inserts and seals transparencies in mounting frames.

MUSEUM TECHNICIAN (museum preparator)
Prepares specimens for museum collections and exhibits: Brushes preservatives such as plaster, resin, hardeners, and shellac on specimens. Molds and restores skeletal parts of fossil animals, using modeling clays and special molding and casting techniques. Reassembles fragmented artifacts, and fabricates substitute pieces.

PAINTER, AIRBRUSH
Coats, decorates, glazes, retouches, or tints articles, such as fishing lures, toys, dolls, pottery, artificial flowers, greeting cards, and household appliances, using airbrush.

PAINTER, EMBOSSED OR IMPRESSED LETTERING
Colors identification or model numbers, brand names, or designs embossed or impressed in articles, using brush or roller.

PAINTER, PLATE (plate colorer)
Paints colors on zinc plates, using brushes and watercolors, following colors in original design, in transferring design to cloth-printing rollers.

PAINTINGS, RESTORER (paintings, conservator)
Restores damaged and faded paintings and preserves paintings, using techniques based on knowledge of art and art materials: Examines surfaces of painting, using magnifying device, and performs tests to determine factors, such as age, structure, pigment stability, and probable reaction to various cleaning agents and solvents. Reconstructs or retouches damaged areas and blends area into adjacent areas to restore painting original condition.

PASTE-UP COPY-CAMERA OPERATOR

Photographs prepared copy, develops negative, and arranges and mounts illustrations and printed legends on paper according to artist's layout. Measures and marks paper according to artist's layout, customers' instructions, or GRAPHIC DESIGNER. Cuts illustrations, type matter, and various shapes of black construction paper from larger sheets, using knife or scissors, and fits material into allocated space or positions for spot emphasis and background. Prepares type headings. Develops and fixes photographs.

PATTERNMAKER (signs)

Lays out pattern of neon sign lettering for use in fabricating scroll, using sketch. Fastens sheet of paper to worktable and blocks in letters, using draftsman's instruments and pencils. Transcribes letters from sketch to pattern.

PHOTO CHECKER AND ASSEMBLER (checker; inspector)

Inspects, assembles, and packs mounted or unmounted negatives, color film transparencies, and photographic prints. Examines items for natural color shading, density, sharpness or image, or identifying numbers.

PHOTOENGRAVER (engraving operator)

Photographs copy, negatives, and prepares photosensitized metal plates, such as copper, zinc, aluminum, and magnesium for use in printing, using photography and developing equipment and engravers' handtools.

PHOTOENGRAVING FINISHER

Blocks out, re-etches, or intensifies designs to refine or repair copper, zinc, aluminum, and magnesium photoengraved printing plates according to copy and specifications, using artist's brushes and hand engraving and burnishing tools. Repairs breaks in type, using handtools. May reetch or reengrave photographic plates to correct color tone or to intensify designs.

PHOTOENGRAVING PRINTER (proof-plate maker; stripper and printer)

Exposes film or glass negatives or positives to artificial light transfer image onto photosensitive metal plates used for printing, applying knowledge of photographic and layout techinques, using photographic equipment, handtools, and cutting machines.

PHOTOENGRAVING PROOFER

Proves printing quality and register of photoengraved printing plate using hand or power driven flatbed or cylinder press, and prepares data sheet on color matching or ink modifications to improve printing quality and register according to copy or customer specifications. Examines proofs to determine printing quality of dots and lines.

PHOTOFINISHING LABORATORY WORKER

Performs any combination of following tasks to prepare and disseminate negatives, positives, and prints in photofinishing laboratory. Pastes identifying label on customer order envelopes and transfer bags to insure matching of orders subsequent to processing. Inserts order in bag or envelope, and

staples bag together or seals envelope. Pastes address label on bag or envelope.

PHOTOGRAPH FINISHER

Performs any combination of the following tasks to dry, trim, and mount photographic prints: Trims print edges. Inserts print in specified frame or mounts print on material. Computes price of order.

PHOTOGRAPHER RETOUCHER

Retouches photographic negatives and prints to accentuate desirable features of subject, using pencils of watercolors and brushes.

PHOTOGRAPHER, AERIAL

Photographs segments of earth and other subject material from aircraft to produce pictures used in surveying, mapping, or related purposes, such as recording effects of pollution or natural disasters, determining condition of crops and timberland, and planning cities or other large scale projects.

PHOTOGRAPHER, LITHOGRAPHIC

Sets up and operates camera to photograph illustrations and printed material, produce film, glass negatives or positives used in the preparation of lithographic printing plates.

PHOTOGRAPHER, MOTION PICTURE

Photographs various subjects and subject material using motion picture cameras and equipment and utilizing knowledge of motion picture techniques, limitations, and advantages to photograph scenes: Resolves problems presented by motion picture exposure control, subject and camera movement, changes in subject distance during filming, and related variables.

PHOTOGRAPHER, SCIENTIFIC

Photographs variety of subject material to illustrate or record scientific data or phenomena, utilizing knowledge of scientific procedures and photographic technology and techniques.

PHOTOGRAPHER, STILL (commercial photographer)

Photographs subjects using still cameras, color or black and white film, and a variety of photographic accessories: Views subject and setting and plans composition, camera position, and camera angle to produce desired effect. Arranges subject material, poses subject, or maneuvers into position to take candid photo.

PHOTOJOURNALIST (photographer, news)

Travels to assigned location, photographs newsworthy events, locations, people, or other material for use in publications or telecasts, using still or motion picture cameras.

POTTERY-MACHINE OPERATOR

Operates *pugmill*, jigger machine, and drying chamber, that form, dry, and finish ceramic ware, such as bowls, cups, plates, and saucers.

PRINTER (compositor)

A term applied to a worker who, prior to actual printing operations, sets and assembles type and cuts in chases for printing articles, headings, and other printed matter, or who composes type by operating various typecasting machines. Typically is required to complete a lengthy apprenticeship.

PROCESS ARTIST (lithographer retoucher; tone artist)

Intensifies or reduces design detail and color values to modify or refine lithographic illustration copy according to original copy, using brushes, pens, crayons, and other artists' work aids: Examines negative and compares with original copy to detect undesirable details and to determine color correction, silhouetting, or opaquing required.

RESTORER, LACE AND TEXTILES (museum)

Restores and prepares ancient textile and lace materials for display in textile museum: Cleans fabric, using cleaning compounds and techniques based on historical knowledge of fabric manufacture and effect of cleaning upon fabric.

RETOUCHER, PHOTOENGRAVING

Touches up photoengraving film reproduction of sketches or photographs to eliminate processing defects and distortions in design: Compares film negatives or positives, with original to locate portion of image, such as dots and lines, that were lost during processing, spots on negatives or positives, and excessively dark or light tone values on film.

ROLLER REPAIRER (textile)

Examines engraved cloth-printing rollers for processing defects and repairs defects, using handtools: Examines rollers for defects. Cleans and polishes rollers, using water, polishing paste, and cloth.

SCREEN-PRINTING-EQUIPMENT SETTER (wallpaper)

Sets up and adjusts silk-screen printing equipment used to handprint multicolored designs on wallpaper. Examines printing screen for sharpness of stencil design and feels screen to verify specified tension on frame. Examines print for defects and adjusts equipment to correct defective printing as required.

SIDEROGRAPHER

Reproduces original engravings on metal plates for printing banknotes, bonds, and other securities, using gravers' handtools and machines. Examines transferred design.

38 **SILK-SCREEN CUTTER**

Cuts stencils by hand for use in silk-screen printing. Superimposes transparent gelatinous film or shellacked onionskin paper on design or lettering to be reproduced, and cuts outline of design, using knife. May draw design directly on screen and fill in surfaces around design with glue.

SKETCH MAKER I

Traces designs on wood-printing blocks or rollers preparatory to engraving by ENGRAVER, BLOCK (print. & pub.), using stylus, ink, and burnishing tool: Places drawing of design over wax paper and traces design, using stylus. May print proof impression of design.

SKETCH MAKER II

Sketches, photographs, and etches cloth designs on zinc plates in form that can be transferred to printing rollers by mechanical pantograph process, using precision measuring and drawing instruments, camera, and etching chemicals: Studies design and production sheet to determine number of times design will be repeated around roller, size of sketch, and number of plates required to complete sketch. Corrects flaws left in design by designer or artist, and reproduces design so that it will be practical for printing.

SPOTTER, PHOTOGRAPHIC

Covers or spots out imperfections on photographic prints, using gloved finger, brush, or pencil. Applies paint to defective area of color print, using gloved finger or artists' brush.

STENCIL CUTTER

Designs, lays out, and cuts letters for stenciling , according to specifications, using precision measuring and drawing instruments and handtools. Draws letter designs on stencil paper.

STENCIL CUTTER (stonework)

Lays out inscriptions and decorative designs on stenciling material applied to stone and cuts out stencil preparatory to sandblasting. Applies stenciling material to stone surface.

STENCIL MAKER (carpet & rug)

Lays out and cuts stencils used to print multicolor designs on rugs, using opaque projector, knife, pencil, and brushes: Draws pencil copy of symmetrical design on tracing paper according to specified dimensions. Prepares proof copy and inspects for accuracy of design reproduction.

STEP-AND-REPEAT REDUCTION CAMERA OPERATOR (electronics)

Operates step-and-repeat camera to reduce electronic drawings to specified size and to repeat pattern on photographic plates used in fabrication of semiconductor devices. Maintains log of process runs, corrections made, and problems incurred.

STICKER-ON

Attaches clay arms to clay figurines by wetting shoulders of figurine with

sponge, and dipping tops of arms into wet clay and pressing them onto shoulders.

STONE POLISHER, HAND

Grinds and polishes stone to smooth or lustrous finish, using portable grinding and polishing tool: Selects abrasive wheel according to type of stone, finish specified, or step in finishing process.

SUPERVISOR, BLUEPRINTING-AND-PHOTOCOPY

Supervises and coordinates activities of BLUEPRINTING-MACHINE OPERATOR (any ind.), PHOTOSTAT OPERATOR (any ind.), FILE CLERK (clerical) and other workers engaged in producing and filing blueprints, vandyke and ozalid prints, and photostats in an industrial plant or commercial photocopy laboratory. Trains workers in operation of machines. Inspects finished prints for sharpness, density of line, and size. Consults with customers.

SUPERVISOR, CLAY SHOP

Supervises and coordinates activities or workers engaged in forming, inspecting, and finishing pottery and porcelain ware. Demonstrates to workers techniques in handling ware to avoid breakage, recognizing and evaluating extent of defects, such as cracks, chips, and pinholes, refinishing defective ware, use of grading and color charts in sorting ware, and rubbing ware surfaces with abrasives to remove rough spots.

SUPERVISOR, FILM PROCESSING (film technician; laboratory contact supervisor)

Supervises and coordinates activities or workers engaged in developing exposed black-and-white and color motion picture film: Examines samples of developed film for defects, such as scratches, cracks, and contours.

SUPERVISOR, FILM PROCESSING

Supervises and coordinates activities or workers engaged in photofinishing operations, such as preparing photographic negatives and paper, and developing, sorting, and checking prints. Trains new workers and demonstrates new techniques to improve skills of experienced workers.

SUPERVISOR, INSPECTING (wallpaper)

Supervises and coordinates activities of workers engaged in inspecting and packaging screen-printed wallpaper. Compiles record of rejected wallpaper and reports probable causes to management for remedial action.

SUPERVISOR, MICROFILM DUPLICATING UNIT

Supervises and coordinates activities of workers engaged in microfilm reproduction activities, including laboratory processing, computer output microfilming, optical character recognition and microfiche duplicating: Operates and repairs microfilming equipment as required to provide continuing service.

SUPERVISOR, OFFSET-PLATE PREPARATION

40 Supervises and coordinates activities of workers engaged in production of photolithographic plates used in offset printing. Examines work of departmental personnel to insure adherence to company standards, using precision measuring and testing instruments. Plans and implements training of new employees.

SUPERVISOR, PUBLICATIONS PRODUCTION
Supervises and coordinates activities of workers engaged in preparation and layout of printed material. Prepares mockup of pages for use by other workers in setting type and making up pages. Reviews finished material for format, accuracy, and general appearance. Submits proofs for final review.

SUPERVISOR, ROLLER SHOP (textile)
Supervises and coordinates activities of workers engaged in inspecting and repairing cloth printing rollers.

SUPERVISOR, SILK-SCREEN CUTTING AND PRINTING
Supervises and coordinates activities of workers engaged in fabricating and assembling silk screens and in handprinting, utilizing silk-screen method: Trains workers in performance of tasks.

TECHNICAL ILLUSTRATOR (engineering illustrator; production illustrator)
Lays out and draws illustrations for reproduction in reference works, brochures, and technical manuals dealing with assembly, installation, operation, maintenance, and repair of machines, tools, and equipment. Prepares drawings from blueprints, designs, mockups, and photoprints by methods and techniques suited to specified reproduction process.

TILE DECORATOR (brick & tile)
Prints lettering or designs on unglazed tile, using silk-screen process. Reads job order and examines drawing of design to determine method of making stencil.

TURNER (pottery & porc.)
Shapes green (unfired) clayware, using lathe.

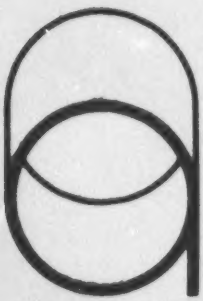
WARE DRESSER (pottery & porc.)
Dresses and polishes glazed and decorated ware and segregates ware into standard grades: Verifies shape and dimensional accuracy of ware. Segregates pieces into standard grades according to number and type of defects in form, color, and uniformity of glaze coverage.

WARE FINISHER (glassware finisher)
Finishes hand pressed or blown glassware by forming and attaching lips, handles, and pedestals.

Appendix A represents an incomplete listing of institutions in higher education where students may consider professional training in one or more of the following areas: design, education; studio arts; or technical arts. The institutions listed were selected from the 1978 *American Art Directory* and represent institutions that offer comprehensive degree granting programs staffed by a minimum of fifteen full-time faculty. While many of the careers listed in this monograph can only be attained after the completion of an apprenticeship program, entry to most careers in the visual arts is accelerated by a university or art school diploma. Consequently, given that there are several ways that students may prepare themselves for entry to a career in the visual arts, systematic study at a quality four-year institution remains the most reliable means of competing for the best jobs.

While an effort was made to represent all fifty States, it is strongly recommended that students write to a number of institutions for information relative to specific interests in order to compare entrance and program requirements. Keep in mind that institutional programs vary from school to school and that some programs may be more suited to your interests than others.

Institutions are organized alphabetically according to State and city.



PPENDIX A: INSTITUTION, STATE AND CITY

Alabama: Auburn University; School of Architecture and Fine Arts, Department of Art, Auburn University, Auburn, Alabama, 36830. BFA: Studio Arts, Graphic Arts.

University of Alabama: Department of Art, Box F, University, Alabama, 35486. BA, BFA: Art Education, Art History, Studio Arts, Graphic Arts.

Alaska: University of Alaska; Department of Art, Fine Arts Complex, Fairbanks, Alaska, 99701. BA: Studio Arts, Graphic Arts, Art History, Textile Design.

Arizona: Northern Arizona University; Art Department, Northern Arizona University, Flagstaff, Arizona, 86001. BFA, BS: Art Education, Graphic Arts, Art History, Studio Arts, Museology.

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Arizona State University; Department of Art, Arizona State University, Tempe, Arizona, 85281. BA, BFA: Art Education, Art History, Studio Arts, Graphic Arts.

University of Arizona; College of Fine Arts, Department of Art, University of Arizona, Tucson, Arizona, 85721. BFA, BA: Art Education, Art History, Graphic Arts, Art History, Studio Arts.

Arkansas:

University of Arkansas Art Department, University of Arkansas, Fayetteville, Arkansas, 72701. BA: Graphic Arts, Art Education, Art History, Studio Arts.

Arkansas State University; Department of Art, Drawer AAAA, Arkansas State University, State University, Arkansas, 72467. BFA, BSE, BS: Art Education, Studio Arts, Graphic Arts.

California:

Humboldt State University; Art Department, Humboldt State University, Arcata, California, 95521. BA, BA + CRED: Studio Arts, Graphic Arts, Art Education.

University of California at Berkeley; College of Letters and Science, Department of Art and History of Art, University of California at Berkeley, Berkeley, California, 94720. BS, BA: Art History, Art History, Studio Arts.

California State University at Chico; Art Department, California State University, Chico, California, 95929. BA: Studio Arts, Art Education.

University of California at Davis; College of Letters and Sciences, Art Department, Davis, California, 95616. BA: Architecture Design, Art History, Studio Arts, Film, Graphic Arts, Museology.

California State University at Fresno; Art Department, Maple and Shaw Avenues, California State University, Fresno, California, 93740. BA: Art Education, Art History, Studio Arts, Graphic Arts, Museology, Textile Design.

California State University at Fullerton; Art Department, California State University, Fullerton, California, 92634. BA: Architecture, Art Education, Art History, Studio Arts, Film, Graphic Arts, Museology, Textile Design.

California State University at Hayward; Art Department, California State University, Hayward, California, 94542. BA: Architecture, Studio Arts, Art History, Museology.

California State University at Long Beach: Art Department, 1601 E. Seventh Street, Long Beach, California, 90840. BA, BFA: Art Education, Art History, Studio Arts, Graphic Arts, Textile Design.

El Camino College: Division of Fine Arts, 16007 Crenshaw Blvd., El Camino College, Los Angeles, California, 90506. AA-2yr.: Studio Arts, Design, Art History.

University of California at Los Angeles: College of Fine Arts, Department of Art, 405 Hilgard Avenue, University of California at Los Angeles, Los Angeles, California, 90024. AB: Studio Arts, Art History, Industrial Design, Textile Design, Graphic Arts.

University of Southern California: School of Architecture and Fine Arts, Department of Fine Arts, University of Southern California, Los Angeles, California, 90007. AB, BFA: Art Education, Art History, Studio Arts.

California State University at Northridge: Department of Art-Two Dimensional Media, 18111 Nordhoff Street, California State University at Northridge, Northridge, California, 91330. BA: Advertising Design, Studio Arts, Graphic Arts, Graphic Design.

California College of Arts and Crafts: 5212 Broadway, California College of Arts and Crafts: Oakland, California. BFA: Art Education, Art History, Studio Arts, Graphic Design.

Art Center College of Design: 1700 Lida Street Art Center College of Design, Pasadena, California, 91103. BFA: Design, Art Education, Art History, Graphic Arts, Studio Arts.

California State University at Sacramento: Department of Art, 6000 J. Street, California State University, Sacramento, California, 95819. BA: Art Education, Studio Arts, Art History.

San Diego State University: Department of Art, San Diego State University, San Diego, California, 92182. BA: Art History, Art Education, Graphic Arts, Design, Studio Arts.

Academy of Art College: 625 Sutter Street, Academy of Art College, San Francisco, California, 94102. BFA: Drawing, Fashion Design, Graphic Arts, Painting.

San Francisco State University: School of Creative Arts, Department of Visual Arts, 1600 Holloway Avenue, San Francisco State University: San Francisco, California, 94132. BA: Art Education, Art History, Studio Arts, Textile Design.

San Jose State University; Art Department, 125 S. Seventh Street, San Jose, California, 95192. BA: Art History, Art Education, Art History, Graphic Arts, Interior Design, Studio Arts; BS: Graphic Design.

Stanford University; Department of Art, Cummings Art Building, Stanford University, Stanford, California, 94305. BA: Art Education, Art History, Studio Arts.

Rio Hondo College; Fine Arts Department, 3600 Workman Mill Road, Rio Hondo College, Whittier, California, 90608. AA-2 yr.: Graphic Design, Art History, Studio Arts.

Colorado:

University of Colorado at Boulder; Department of Fine Arts, Fine Arts Building, Room 104, University of Colorado at Boulder, Boulder, Colorado, 80309. BA, BFA: Art Education, Art History, Studio Arts.

Colorado State University; Department of Art, Colorado State University, Fort Collins, Colorado, 80523. BA, BFA: Art Education, Art History, Studio Arts, Design, Graphic Arts.

Connecticut:

University of Bridgeport; College of Fine Arts, Art Department, University and Iranistan Avenues, University of Bridgeport, Bridgeport, Connecticut, 06602. AA-2 yr.: Art Education, Art History, Studio Arts.

Wesleyan University; Art Department, Wesleyan University, Middletown, Connecticut, 06457. BA: Art Education, Art History, Graphic Arts, Studio Arts.

Central Connecticut State College; Department of Art, 1615 Stanley Street, Central Connecticut State College, New Britain, Connecticut, 06050. BA: Art Education, Art History, Costume Design, Studio Arts, Graphic Arts, BS: Art Education.

Southern Connecticut State College; Department of Art, 501 Crescent Street, Southern Connecticut State College, New Haven, Connecticut, 06511. BS: Art Education; BA: Advertising Design, Graphic Arts, Art History, Studio Arts.

Yale University; School of Art, 180 York Street, Yale University, New Haven, Connecticut, 06520. BA, BFA: Studio Arts, Art History, Graphic Arts.

Delaware:

University of Delaware: Department of Art, University of Delaware, Newark, Delaware, 19711. BA, BS, BFA: Art Education, Studio Arts, Graphic Arts.

District of Columbia:

Catholic University of America; Department of Architecture and Planning, Catholic University of America, Washington, D.C., 20064. BS: Architecture, Art History.

Corcoran School of Art; 17th Street and New York Avenue, N.W., Corcoran School of Art, Washington, D.C., 20006. BFA: Aesthetic, Art History, Studio Arts, Graphic Design.

Howard University; Department of Art, College of Fine Arts, Sixth Street and Fairmount Street, N.W., Washington, D.C., 20001. BFA: Art Education, Art History, Studio Arts, Graphic Arts.

Florida:

University of Florida; Department of Art, 302C, APA Complex, Gainesville, Florida, 32611. BAA, BFA: Art Education, Art History, Graphic Arts, Studio Arts.

Florida State University, School of Visual Arts, Florida State University, Tallahassee, Florida, 32306. BS, BA: Art Education, Art History, Studio Arts, Texile Design.

University of South Florida; College of Fine Arts, Art Department, 4202 Fowler Avenue, Tampa, Florida, 33620. BA: Art History, Graphic Arts, Studio Arts.

Georgia:

University of Georgia; Franklin College of Arts and Sciences, Division of Fine Arts, University of Georgia, Athens, Georgia 30602. Four year degrees: Art Education, Art History, Studio Arts, Graphic Arts.

Georgia State University; 33 Gilmer Street, Department of Art, Georgia State University, Atlanta, Georgia, 30303. BVA, AB: Advertising Design, Art History, Graphic Design, Studio Arts, Art Education.

Hawaii:

University of Hawaii at Manoa; Department of Art, 2535 the Mall, University of Hawaii at Manoa, Honolulu, Hawaii, 96822. BA: Art History, Studio Arts, Design, Graphic Arts.

Idaho:

Boise State University; Art Department, 1910 University Boulevard, Boise, Idaho, 83725. BA: Education, Advertising Design, Graphic Arts, Art History, Textile Design; BFA: Advertising Design, Art Education.

University of Idaho; Department of Art and Architecture, University of Idaho, Moscow, Idaho, 83843. BA, BFA: Architecture, Art Education, Studio Art, Design.

Illinois:

Southern Illinois University; School of Art, Southern Illinois University,Carbondale, Illinois, 62902. BA:Art Education, Art

History, Architecture, Studio Art, Graphic Arts, Textile, Design.

University of Illinois at Urbana-Champaign; College of Fine and Applied Arts, University of Illinois, Champaign, Illinois, 61820. BA: Art Education, Art History, Studio Arts, Graphic Arts, Industrial Design.

Eastern Illinois University; Art Department, FAA 216, Eastern Illinois University, Charleston, Illinois, 61920. BA: Advertising Design, Art Education, Art History, Studio Arts, Graphic Arts.

American Academy of Art; 220 S. State Street, American Academy of Art, Chicago, Illinois, 60604. AA: Advertising Design, Graphic Arts, Interior Design, Studio Arts.

School of the Art Institute of Chicago; Jackson Boulevard at Columbus Drive, School of the Art Institute, Chicago, Illinois, 60603. BFA: Art History, Graphic Arts, Art Education, Studio Arts.

University of Illinois at Chicago Circle; College of Architecture, Art and Urban Sciences, P.O. Box 4348, Chicago, Illinois, 60680. BA: Design, Studio Arts, Art Education.

Northern Illinois University; College of Visual and Performing Arts, Department of Art, Northern Illinois University, De Kalb, Illinois, 60115. BS, BA, BFA: Advertising Design, Art Education, Art History, Studio Arts, Graphic Arts, Interior Design.

Southern Illinois University at Edwardsville; Department of Art and Design, Southern Illinois University, Edwardsville, Illinois, 62062. BA, BS, BFA: Art Education, Art History, Studio Arts, Graphic Arts, Textile Design.

Western Illinois University; Department of Art, Western Illinois University, Macomb, Illinois, 61455. BA: Art Education, Commercial Art, Studio Arts, Art History.

Illinois State University; Center for the Visual Arts, Art Department, Illinois State University, Normal, Illinois, 61761. BA, BS, BFA: Art Education, Art History, Studio Arts, Textile Design, Graphic Arts.

Indiana:

Indiana University, Bloomington; Department of Fine Arts, Indiana University at Bloomington, Bloomington, Indiana, 47401. AB, BFA: Studio Arts, Graphic Design, Art Educa-

tion, Art History, Textile Design.

Herron School of Art, 1701 N. Pennsylvania Street, Indiana University-Purdue University, Indianapolis, Indiana, 46202. BFA: Art Education, Art History, Studio Arts, Graphic Arts.

Ball State University, Art Department, 2000 University Avenue, Ball State University, Muncie, Indiana, 47306. BS: Art Education, Art History, Studio Arts, Graphic Arts.

Indiana State University at Terre Haute; Art Department, Indiana State University, Terre Haute, Indiana, 47809. BS, BFA: Art Education, Art History, Studio Arts, Graphic Arts.

Purdue University, School of Humanities, Social Science and Education, Department of Creative Arts, Art and Design Section, West Lafayette, Indiana, 47907. BA: Art History, Design, Art Education, Studio Arts.

Iowa:

Iowa State University; College of Home Economics. Department of Applied Art, 215 Mackay Hall, Iowa State University, Ames, Iowa, 50011. BA: Art Education, Studio Arts, Graphic Arts, Art History.

University of Northern Iowa; College of Humanities and Fine Arts, Department of Art, University of Northern Iowa, Cedar Falls, Iowa, 50613. BA, BFA: Art Education, Art History, Studio Arts, Graphic Arts.

Drake University; Art Department, 25th and University Avenue, Drake University, Des Moines, Iowa, 50311. BFA: Advertising Design, Art Education, Studio Arts, Graphic Arts, Interior Design, Textile Design.

University of Iowa; School of Art and Art History, University of Iowa, Iowa City, Iowa, 52242. BA, BFA: Art Education, Art History, Graphic Arts, Studio Arts.

Kansas:

University of Kansas; School of Fine Arts, University of Kansas, Lawrence, Kansas, 66044. BFA, BA, BS: Art History, Graphic Design, Studio Arts, Design, Art Education.

Wichita State University; College of Fine Arts, Division of Art, Wichita State University, Wichita, Kansas, 67208. BAE, BFA: Art Education, Art History, Studio Arts, Graphic Arts.

Kentucky:

Northern Kentucky University; Art Department, 526 Johns Hill Road, Northern Kentucky University, Highland Heights, Kentucky, 41076. BA, BFA: Art Education, Studio Arts, Art History.

University of Louisville; Allen R. Hite Art Institute, Department of Fine Arts, Belknap Campus, University of Louisville, Louisville, Kentucky, 40208. BA: Art Education, Art History, Studio Arts.

Murray State University; College of Creative Expression; Art Department, Murray State University, Murray, Kentucky, 42071. BA, BS, BFA: Art Education, Studio Arts, Graphic Arts, Art History, Textile Design.

Eastern Kentucky University; Art Department, Eastern Kentucky University, Richmond, Kentucky, 40475. BA, BFA: Graphic Arts, Studio Arts.

Louisiana:

Louisiana State University; Department of Fine Arts, Louisiana State University, Baton Rouge, Louisiana, 70803. BFA: Art Education, Art History, Studio Arts, Graphic Arts.

University of Southwestern Louisiana; School of Art and Architecture, University of Southwestern Louisiana, Lafayette, Louisiana, 70501. B.Arch., BFA: Advertising Design, Art Education, Studio Arts.

Tulane University; Newcomb College, Art Department, 60 Newcomb Place, New Orleans, Louisiana, 70018. BA, BFA: Art History, Art Education, Studio Arts.

Louisiana Tech University; School of Art and Architecture, PO Box 6277, Tech Station, Ruston, Louisiana, 71270. BA, BFA: Architecture, Studio Arts, Art Education, Interior Design.

Maine:

University of Maine; Art Department, University of Maine, Orono, Maine, 04473. BA, BS: Art Education, Art History, Studio Art, Commercial Art.

Portland School of Art; Portland School of Art, Portland, Maine, 04101. BFA: Art History, Graphic Arts, Studio Arts.

Maryland:

Maryland Institute; College of Art, 1300 W. Mt. Royal Avenue, Maryland Institute, Baltimore, Maryland, 21217. BFA: Art Education, Studio Arts, Graphic Arts, Interior Design, Designer-Craftsman.

University of Maryland; Art Department, J. Millard Tawes Fine Arts Center, University of Maryland, College Park, Maryland, 20724. BA: Art Education, Graphic Art, Art History, Museology, Studio Art.

Massachusetts: University of Massachusetts at Amherst; College of Arts and Sciences, Department of Art, University of Massachusetts, Amherst, Massachusetts, 01002. BA, BFA: Art Education, Studio Arts, Graphic Arts, Art History.

Art Institute of Boston; 700 Beacon Street, Art Institute of Boston; Boston, Massachusetts, 02215. BS, BFA: Advertising Design, Art History, Studio Arts, Graphic Arts.

Boston State College; Art Department, 625 Huntington Avenue, Boston State College, Boston, Massachusetts, 02115. BA, BS, BSN: Advertising Design, Architecture, Art Education, Art History, Studio Arts.

Boston University; School of Visual Arts, 855 Commonwealth Avenue, Boston University, Boston, Massachusetts, 02115. BFA: Art Education, Graphic Arts, Studio Arts.

Massachusetts College of Art; 364 Brookline Avenue, Massachusetts College of Art, Boston, Massachusetts, 02215. BFA: Advertising Design, Art Education, Art History, Studio Arts, Interior Design, Graphic Design.

Southeastern Massachusetts University; College of Visual and Performing Arts, Old Westport Road, Southeastern Massachusetts University, North Dartmouth, Massachusetts, 02474. BFA, BA: Advertising Design, Art Education, Art History, Studio Arts, Graphic Arts, Textile Design.

Smith College; Art Department, Smith College, Northampton, Massachusetts, 01063. BA: Art Education, Art History, Studio Arts, Graphic Arts, Museology, Architecture.

Michigan: University of Michigan at Ann Arbor; School of Art, 2000 Bonisteel Boulevard, University of Michigan, Ann Arbor, Michigan, 48109. BFA: Advertising Design, Art Education, Studio Arts, Graphic Arts, Textile Design.

Wayne State University; College of Liberal Arts, Department of Art and Art History, 450 Kirby Street, Detroit, Michigan, 48202. BA, BFA: Advertising Design, Architecture, Art History, Studio Arts, Graphic Arts, Museology, Textile Design.

Michigan State University; College of Arts and Letters, Department of Art, 113 Kresge Art Center, Michigan State University, East Lansing, Michigan, 48828. BA, BFA: Advertising Design, Art Education, Art History, Studio Arts, Graphic Arts.

Kendall School of Design; 1110 College Avenue, Kendall School of Design, Grand Rapids, Michigan, 49503. BFA: Advertising Design, Architecture, Art History, Graphic Arts, Interior Design, Studio Arts.

Western Michigan University; Department of Art, Central Michigan University, Kalamazoo, Michigan, 49008. BA, BFA, AB: Art Education, Art History, Studio Arts, Graphic Arts.

Central Michigan University; Department of Art, Central Michigan University, Mount Pleasant, Michigan, 48859. BA, BFA, AB: Art Education, Art History, Studio Arts, Graphic Arts.

Eastern Michigan University; Department of Art, Eastern Michigan University, Ypsilanti, Michigan, 48197. BA, BS: Advertising Design, Art Education, Art History, Studio Arts, Museology, Textile Design.

Minnesota:

Mankato State University; Art Department, Mankato State University, Mankato, Minnesota, 56001. BA, BFA, BS: Advertising Design, Art Education, Art History, Studio Arts.

Minneapolis College of Art and Design; 133 E. 25th Street, Minneapolis College of Art and Design, Minneapolis, Minnesota, 55404. BFA: Advertising Design, Design, Studio Arts, Fashion Design, Graphic Arts, Art History.

University of Minnesota, Minneapolis; Department of Studio Art, 216 21st Avenue, South, University of Minnesota, Minneapolis, Minnesota, 55455. BA, BFA: Art history, Studio Arts, Design.

Saint Cloud State University; Department of Art, Saint Cloud State University; Saint Cloud, Minnesota, 56301. BA, BS: Art Education, Studio Arts, Graphic Arts, Museology, Art History, Textile Design.

Mississippi:

University of Mississippi; Department of Art, University of Mississippi, University, Mississippi, 38677. BA, BFA: Advertising Design, Art Education, Art History, Studio Arts, Graphic Arts, Interior Design.

Missouri:

University of Missouri; Art Department, A 126 Fine Arts, University of Missouri, Columbia, Missouri, 65201. BA, BFA: Advertising Design, Architecture, Art Education, Studio Arts, Graphic Arts, Art History, Textile Design.

Kansas City Art Institute; 4415 Warwick Boulevard, Kansas

City Art Institute, Kansas City, Missouri, 64111. BFA: Advertising Design, Art History, Studio Arts.

Washington University; School of Fine Arts, Lindell and Skinker, Washington University, Saint Louis, Missouri, 63130. BFA: Advertising Design, Art Education, Architecture, Studio Arts, Graphic Arts.

Southwest Missouri State University, Department of Art, 901 S. National, Southwest Missouri State University, Springfield, Missouri, 65802. BA, BFA, BS: Art Education, Art History, Studio Arts, Graphic Arts.

Montana: University of Montana; Department of Art, University of Montana, Missoula, Montana, 59812. BA, BFA: Art Education, Art History, Studio Arts.

Nebraska: University of Nebraska at Lincoln, Department of Art, 207 Nelle Cochrane Woods Hall, Lincoln, Nebraska, 68588. BA, BS, AA: Advertising Design, Art Education, Art History, Marketing Design, Museology, Studio Arts.

Nevada: University of Nevada at Las Vegas; Department of Art, 4504 Maryland Parkway, University of Nevada at Las Vegas, Las Vegas, Nevada, 89154. BA, BFA: Art History, Studio Arts.

New Hampshire: University of New Hampshire; College of Liberal Arts, Department of the Arts, University of New Hampshire, Durham, New Hampshire, 03824. BA, BFA: Art History, Graphic Arts.

New Jersey: Glassboro State College; Department of Art, Rte. 322, Glassboro State College, Glassboro, New Jersey, 08028. BA: Art Education, Studio Arts, Graphics, Art History, Textile Design.

Jersey City State College; Art Department, 2039 Kennedy Memorial Boulevard, Jersey City State College, Jersey City, New Jersey, 07305. BA: Advertising Design, Art Education, Studio Arts, Art History, Textile Design.

Rutgers University; Federated College Department, The State University of New Jersey, New Brunswick, New Jersey, 08903. BA: Art Education, Art History, Studio Arts.

Trenton State College; Art Department, Pennington Road, Trenton State College, Trenton, New Jersey, 08625. BA: Advertising Design, Art Education, Art History, Graphic Design, Interior Design, Textile Design.

52 **New Mexico:** University of New Mexico; Department of Art, University of New Mexico, Albuquerque, New Mexico, 87131. BA, BFA: Art Education, Art History, Studio Arts.

New York: New York State College of Ceramics at Alfred University; Division of Art and Design, NYSC/Ceramics at Alfred University, Alfred, New York, 14802. BFA: Art Education, Design, Studio Arts.

SUNY at Binghamton; Department of Art and Art History, SUNY at Binghamton, Binghamton, New York, 13901. BA: Advertising Design, Architecture, Art History, Studio Arts, Graphic Arts, Museology.

SUNY at Brockport; Department of Art, 204 Fine Arts Building, SUNY at Brockport, Brockport, New York, 14220. BA, BS: Studio Arts, Art History.

Brooklyn Museum Art School; 188 Eastern Parkway, Brooklyn Museum Art School, Brooklyn, New York, 11238. NO DEGREES: Studio Arts only.

Pratt Institute; School of Art and Design, 215 Ryerson Street, Pratt Institute, Brooklyn, New York, 11205. BS: Art Education, Studio Arts, Fashion Arts, Art History.

SUNY at Buffalo; Fine Arts Department, 1300 Elmwood Avenue, SUNY at Buffalo, Buffalo, New York, 14222. BA, BFA: Art History, Graphic Arts, Museology, Studio Arts.

SUNY at New Paltz; Studio Art Department, SUNY at New Paltz, New York, 12561. BFA: Studio Arts, Art Education.

Columbia University; Division of Painting and Sculpture, 305 Dodge Hall, 116th and Broadway, Columbia University, New York, New York, 10027. ONLY MFA PROGRAMS: Studio Arts, Art History.

Parsons School of Design; 66 Fifth Avenue, Parsons School of Design, New York, New York, 11215. BFA, AAS: Advertising Design, Art Education, Art History, Studio Arts, Commercial Arts, Fashion Art, Graphic Arts, Design.

School of Visual Arts; 209-213 23rd Street, School of Visual Arts, New York, New York, 10010. BFA: Advertising Design, Studio Arts, Graphic Arts, Illustration Design, Journalism Art.

SUNY at Oswego; Art Department, SUNY at Oswego, New

York, New York, 13126. BA: Art History, Studio Arts, Graphic Arts, Museology, Design.

Rochester Institute of Technology; College of Fine and Applied Arts, One Lomb Memorial Drive, Rochester Institute of Technology, Rochester, New York, 14623. AAS, BFA: Studio Arts.

Skidmore College; Department of Art, Skidmore College, Saratoga Springs, New York, 12866. BA, BS: Art Education, Art History, Studio Arts, Graphic Arts.

SUNY AT Stony Brook; Art Department, SUNY at Stony Brook, Stony Brook, New York, 11794. BA: Art History, Studio Arts.

Syracuse University; College of Visual and Performing Arts, School of Art, 200 Crouse College, Syracuse University, Syracuse, New York, 13210. BFA: Advertising Design, Art Education, Art History, Commercial Art, Museology, Studio Arts.

North Carolina:

University of North Carolina at Chapel Hill; Department of Art and Art History, 104 Ackland Art Center, 003A, UNC at Chapel Hill, Chapel Hill, North Carolina, 27514. BA, BFA: Art Education, Art History, Studio Arts, Museology.

University of North Carolina at Greensboro; Art Department, UNC at Greensboro, Greensboro, North Carolina, 27412. BA, BFA: Advertising Design, Design, Studio Arts, Art Education, Graphic Arts.

East Carolina University; School of Art, East Carolina University, Greenville, North Carolina, 27834. AB, BS, BFA: Art Education, Art History, Studio Arts, Interior Design.

North Dakota:

University of North Dakota; College of Fine Art, Visual Arts Department, University of North Dakota, Grand Forks, North Dakota, 58202. BA: Art History, Art Education, Studio Arts, Commercial Design, Graphic Arts.

Ohio:

Ohio University; College of Fine Arts, School of Art, Ohio University, Athens, Ohio, 45701. BFA: Art Education, Art History, Graphic Arts, Studio Arts.

Bowling Green State University; School of Art, Fine Arts Building, Bowling Green State University, Bowling Green, Ohio, 43403. BA, BS, BFA: Art Education, Art History, Studio Art, Design, Graphic Arts.

University of Cincinnati; College of Design, Architecture and Art, University of Cincinnati, Cincinati, Ohio, 45221. BA, BS, BFA: Art Education, Art History, Studio Arts, Fashion Design, Graphic Arts.

Cleveland Institute of Art; 1141 East Boulevard, Cleveland, Ohio, 44106. BFA, BS: Art Education, Art History, Studio Art, Design, Graphic Arts.

Columbus College of Art and Design; 44 N. Washington Avenue, Columbus College of Art and Design, Columbus, Ohio, 43215. BFA: Advertising Design, Graphic Arts, Design, Studio Arts.

Ohio State University; College of the Arts, 305 Mershon Auditorium, 30 W. 15th Avenue, Ohio State University, Columbus, Ohio, 43210. BA, BA Ed, BFA, BSID: Art Education, Art History, Studio Arts, Design, Graphic Arts.

Wright State University; Art Department, Colonel Glenn Highway, Wright State University, Dayton, Ohio, 45435. BA, BFA: Art History, Graphic Arts, Studio Arts.

Kent State University; College of Fine and Professional Art, School of Art, Kent State University, Kent, Ohio, 44242. BA, BFA, BS: Art Education, Art History, Studio Arts, Graphic Arts, Design.

Miami University of Ohio; School of Fine Arts, Art Department, Heistand Hall, Miami University, Oxford, Ohio, 45056. BFA, BS: Advertising Design, Art Education, Art History, Graphic Design, Museology, Textile Design.

Toledo Museum of Art; School of Design, Box 1013, Toledo Museum of Art, Toledo, Ohio, 43697. BA: Studio Art, Art History, Design.

Youngstown State University; Art Department, Fine and Performing Arts, 410 Wick Avenue, Youngstown State University, Youngstown, Ohio, 44555. AB, BFA, BS: Art Education, Art History, Studio Arts, Commercial Art, Graphic Arts.

Oklahoma:

University of Oklahoma; School of Art, University of Oklahoma, Norman, Oklahoma, 73069. BFA: Advertising Design, Art Education, Studio Arts, Art History, Graphic Arts.

Oregon:

Oregon State University; College of Liberal Arts, Oregon State University, Corvallis, Oregon, 97331. BA, BS, BFA:

Advertising Design, Studio Art, Art History, Art Education, Graphic Arts.

University of Oregon; School of Architecture and Allied Arts, Department of Fine and Applied Arts, University of Oregon, Eugene, Oregon, 97403. BA, BS, BFA: Studio Arts, Design.

Pennsylvania:

Edinboro State College; Art Department, Edinboro State College, Edinboro, Pennsylvania, 16444. BS Ed, BFA, BA: Art Education, Art History, Studio Art, Graphic Arts, Design.

Indiana University of Pennsylvania; Department of Art and Art Education, Indiana University, Indiana, Pennsylvania, 15701. BS, BA: Art Education, Studio Art.

Kutztown State College; School of Art, Art Education and Fine Arts Department, Kutztown State College, Kutztown, Pennsylvania, 19530. BFA, BS: Advertising Design, Studio Art, Art Education.

Moore College of Art; 20th and Race Streets, Philadelphia, Pennsylvania, 19103. BFA, BS, BA: Advertising Design, Art Education, Art History, Studio Arts, Fashion Arts, Design.

Pennsylvania Academy of Fine Arts; Broad and Cherry Streets, Pennsylvania Academy of Fine Arts, Philadelphia, Pennsylvania, 19103. BFA: Art History, Studio Arts.

Philadelphia College of Art; Broad and Spruce Streets, Philadelphia College of Art, Philadelphia, Pennsylvania, 19102. BFA, BS: Advertising Design, Art Education, Art History, Studio Art, Graphic Arts, Design.

Tyler School of Art, Temple University; Beech and Penrose Avenues, Tyler School of Art, Philadelphia, Pennsylvania, 19126. BFA: Art Education, Studio Art, Graphic Arts, Art History.

Carnegie-Mellon University; College of Fine Arts, 5000 Forges Avenue, Carnegie-Mellon University, Pittsburgh, Pennsylvania, 15213. GC: Design, Art Education, Studio Arts.

Pennsylvania State University; College of Arts and Architecture, 111 Arts Building, Pennsylvania State University, University Park, Pennsylvania, 16802. BS, BA, BFA: Architecture, Art History, Art Education, Studio Arts, Graphic Arts, Design.

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Rhode Island:

Rhode Island College: Art Department, Rhode Island College, Providence, Rhode Island, 02908. BA, BS: Art Education, Art History, Studio Arts, Graphic Arts.

Rhode Island School of Design: 2 College Street, Rhode Island School of Design, Providence, Rhode Island. BA, BID, B Arch: Design, Studio Art, Art Education.

South Carolina:

University of South Carolina: Department of Art, Sloan College, University of South Carolina, Columbia, South Carolina, 29208. BA, BFA, BS: Advertising Design, Art Education, Art History, Studio Arts, Design.

South Dakota:

University of South Dakota: Department of Art, University of South Dakota, Vermillion, South Dakota, 57069. BS, BFA: Advertising, Art Education, Art History, Studio Arts, Graphic Arts.

Tennessee:

East Tennessee State University, Fine Arts Department, Box 23740A, East Tennessee State University, Johnson City, Tennessee, 37601. BA, BS, BFA: Art Education, Art History, Graphic Arts, Studio Arts.

University of Tennessee, Knoxville: Department of Art, 927 Volunteer Boulevard, University of Tennessee, Knoxville, Tennessee, 37916. BA, BFA: Advertising Design, Art History, Graphic Arts, Studio Arts.

Memphis Academy of Arts: Overton Park, Memphis Academy of Arts, Memphis, Tennessee, 38112. BFA: Advertising Design, Art History, Design, Studio Arts.

Texas:

University of Texas: University Station, University of Texas, Austin, Texas, 78712. BA: Studio Arts, Graphic Arts, Art History, Art Education.

Texas A and M University: College of Architecture and Environmental Design, Texas A and M University, College Station, Texas, 77843. BE, BS: Design.

North Texas State University: Department of Art, North Texas State University, Denton, Texas, 76203. BA, BFA: Advertising Design, Art Education, Art History, Studio Arts, Graphic Arts, Museology.

University of Houston: Department of Art, University of Houston, Houston, Texas, 77004. BA, BFA: Advertising Design, Art Education, Art History, Studio Arts, Museology, Graphic Arts.

Utah:

Utah State University; College of Humanities and Arts, Utah State University, Logan, Utah, 84322. BS, BA, BFA: Advertising Design, Art Education, Studio Arts.

Brigham Young University; Department of Art and Design, C-502 HFAC, Brigham Young University, Provo, Utah, 84602. BA, BFA: Art Education, Art History, Studio Arts, Graphic Arts, Design.

Vermont:

Bennington College; Bennington, Vermont, 05201. AB: Studio Arts, Graphic Arts, Art History.

University of Vermont; College of Arts and Sciences, Department of Art, University of Vermont, Burlinton, Vermont, 05401. BA, BS: Art Education, Art History, Studio Arts, Design.

Virginia:

University of Virginia; McIntire Department of Art, Fayerweather Hall, University of Virginia, Charlottesville, Virginia, 22903. BA: Art History, Graphic Arts, Design, Studio Arts.

Virginia Commonwealth University; School of the Arts, 325 N. Harrison Street, Virginia Commonwealth University, Richmond, Virginia, 23284. BFA: Art education, Art History, Studio Arts, Design.

Washington:

Western Washington University; College of Fine and Performing Arts, Art Department, Western Washington University, Bellingham, Washington, 89225. BA, BFA: Art Education, Studio Arts.

Central Washington University; Department of Art; Central Washington University, Ellensburg, Washington, 98926. BA: Art Education, Design, Art History, Studio Arts.

Washington State University; Fine Arts Department, Washington State University, Pullman, Washington, 99164. BA: Advertising Design, Art History, Studio Arts, Museology, Design.

West Virginia:

West Virginia University; Division of Art, Creative Arts Center, West Virginia University, Morgantown, West Virginia, 26506. BA, BFA: Art Education, Art History, Design, Studio Arts.

Wisconsin:

University of Wisconsin at Eau Claire; Department of Art, Park and Garfield Avenues, UW at Eau Claire, Eau Claire, Wisconsin, 54701. BA, BFA: Advertising Design, Art Education, Studio Arts, Graphic Arts, Art History.

University of Wisconsin at Madison; School of Education, Department of Art, 6241 Humanities Building, 455 N. Park, University of Wisconsin at Madison, Madison, Wisconsin. BS: Art Education, Studio Arts, Design, Museology.

University of Wisconsin at Oshkosh; Department of Art, UW at Oshkosh, Oshkosh, Wisconsin, 54901. BA, BAE, BS: Advertising Design, Art Education, Art History, Studio Arts, Museology.

Wyoming: University of Wyoming; Art Department, PO Box 3138, University Station, University of Wyoming, Laramie, Wyoming, 82071. BA, BS, BFA: Advertising Design, Art History, Studio Arts, Graphic Arts.

The purpose of Appendices B and C is to provide the reader with an easy reference for the principal state agency responsible for higher or vocational education in each state. While specific questions regarding educational programs, entrance requirements, tuition and fees, can be best answered by individual educational institutions within each state, broad long term questions regarding the development of new educational programs and comprehensive programmatic comparisons are best answered by these commissions.

PPENDIX B: LISTING OF HIGHER EDUCATION COMMISSIONS FOR EACH STATE

ALABAMA
Commission on Higher Education
1504 Union Bank & Trust Bldg.
Montgomery, AL 36104

ALASKA
University of Alaska
101 Bunnell
Fairbanks, AK 99701

ARIZONA
Board of Regents
1535 W. Jefferson, Rm. 121
Phoenix, AZ 85007

ARKANSAS
Dept. of Higher Education
122 National Old Line Bldg.
Little Rock, AR 72201

CALIFORNIA
State University & Colleges
5670 Wilshire Blvd.
Los Angeles, CA 90036

CONNECTICUT
Commission for Higher Education
340 Capitol Avenue
Hartford, CT 06115

DELAWARE
Delaware Postsecondary Commission
800 Delaware Avenue, Suite 703
Wilmington, DE 19801

FLORIDA
Board of Regents
Div. of Universities
Dept. of Education
210 Collins Bldg.
Tallahassee, FL 32304

GEORGIA
University System
Board of Regents
244 Washington St., SW
Atlanta, GA 30334

HAWAII
University of Hawaii
2444 Dole St.
Honolulu, HI 96822

IDAHO
Office of State Board of Education
Dept. of Education
Len B. Jordan Bldg.
Boise, ID 83720

ILLINOIS
Board of Higher Education
119 S. 5th, Rm. 500
Springfield, IL 62701

INDIANA
Commission for Higher Education
400 Harrison Bldg.
Indianapolis, IN 46204

IOWA
Board of Regents
Grimes Bldg.
Des Moines, IA 50319

KANSAS
Board of Regents
Merchants National Bank Tower
Topeka, KS 66612

KENTUCKY
Council on Public Higher Education
Capital Plaza Tower
Frankfort, KY 40601

LOUISIANA
Higher Education
Board of Regents
One American Place, Suite 1530
Baton Rouge, LA 70825

MAINE
University of Maine
107 Maine Avenue
Bangor, ME 04401

MARYLAND
Bd. for Higher Education
16 Francis St.
Annapolis, MD 21401

MASSACHUSETTS
Board of Higher Education
Dept. of Education
Exec. Officer of Educational Affs.
182 Tremont St.
Boston, MA 02111

MIGHIGAN
Higher Educ. Planning & Coord.
Dept. of Education
520 Michigan National Tower
Lansing, MI 48909

MINNESOTA
Higher Education Coordinating Board
550 Cedar St., Rm. 400
St. Paul, MN 55101

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MISSISSIPPI
Board of Trustees
Institutions of Higher Learning
P.O. Box 2336
Jackson, MS 39205

MISSOURI
Dept. of Higher Education
600 Clark Ave.
Jefferson City, MO 65101

MONTANA
Higher Education
Dept. of Education
33 S. Last Chance Gulch
Helena, MT 59601

NEBRASKA
Bd. of Trustees of Neb. State Colleges
344 State Capitol
Lincoln, NE 68509

NEVADA
University of Nevada System
405 Marsh Ave.
Reno, NV 89509

NEW HAMPSHIRE
Postsecondary Education Comm.
66 S. Street
Concord, NH 03309

NEW JERSEY
Dept. of Higher Education
225 S. State St.
Trenton, NJ 08625

NEW MEXICO
Board of Educational Finance
State Capitol
Santa Fe, NM 87503

NEW YORK
Higher & Professional Education
Education Dept.
99 Washington Ave.
Albany, NY 12230

NORTH CAROLINA
General Administration
University of North Carolina
Chapel Hill NC 27514

NORTH DAKOTA
Board of Higher Education
State Capitol
Bismarck, ND 58505

OHIO
Board of Regents
30 E. Broad St.
Columbus, OH 43215

OKLAHOMA
Regents for Higher Education
500 Education Bldg.
Oklahoma City, OK 73105

OREGON
Board of Higher Education
P.O. Box 3175
Eugene, OR 97403

PENNSYLVANIA
Office of Higher Education
Dept. of Education
306 Education Bldg.
Harrisburg, PA 17120

RHODE ISLAND
Dept. of Education
199 Promenade St.
Providence, RI 02908

SOUTH CAROLINA
Commission on Higher Education
1429 Senate St.
Columbia, SC 29201

SOUTH DAKOTA
Higher Education
Board of Regents
Dept. of Education & Cultural Affs.
State Office Bldg.
Pierre, SD 57501

TENNESSEE
Higher Education Commission
501 Union Bldg., Suite 300
Nashville, TN 37219

TEXAS
Coordinating Board
College & University System
LBJ State Office Bldg.
Austin, TX 78701

UTAH
Board of Regents
Utah System of Higher Education
136 E. South Temple, Suite 1201
Salt Lake City, UT 84114

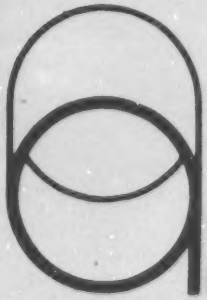
VERMONT
Vermont State Colleges
322 S. Prospect St.
Burlington, VT 05401

VIRGINIA
Council of Higher Education
700 Fidelity Bldg.
Richmond, VA 23219

WEST VIRGINIA
Board of Regents
1316 Charleston National Plaza
Charleston, WV 25301

WISCONSIN
University of Wisconsin System
1220 Linden Drive
Madison, WI 53706

WYOMING
Higher Education Council
Boyd Bldg.
Cheyenne, WY 82002



APPENDIX C:
LISTING OF VOCATIONAL EDUCATION COMMISSIONS FOR EACH STATE

ALABAMA
Vocational Education Division
Dept. of Education
State Office Bldg.
Montgomery, AL 36104

ALASKA
Career & Vocational Education
Education Program Support
Department of Education
Pouch F
Juneau, AK 99811

ARIZONA
Career and Vocational Education Div.
Dept. of Education
1535 W. Jefferson
Phoenix, AZ 85007

ARKANSAS
Vocational-Technical & Adult Educ.
Dept. of Education
Education Bldg., Capitol Mall
Little Rock, AR 72201

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CALIFORNIA
Voc. Educ. & Tech. Training Council
Advisory Council on Voc. Educ.
708 10th St.
Sacramento, CA 95814

COLORADO
Occupational Education
Dept. of Higher Education
1525 Sherman St., Rm. 207
Denver, CO 80203

CONNECTICUT
Div. of Vocational Education
Dept. of Education
165 Capitol Ave.
Hartford, CT 06115

DELAWARE
Vocational Education Div.
Dept. of Public Instruction
Townsend Bldg.
Dover, DE 19901

FLORIDA
Div. of Vocational Education Dept.
Dept. of Education
Knott Bldg.
Tallahassee, FL 32304

GEORGIA
Adult & Vocational Education
Dept. of Education
State Office Bldg., Rm. 237
Atlanta, GA 30334

HAWAII
Office of Instructional Service
Dept. of Education
1390 Miller St.
Honolulu, HI 96813

IDAHO
Vocational Education
Dept. of Education
Len B. Jordan Bldg.
Boise, ID 83720

ILLINOIS
Div. of Vocational & Technical Educ
Office of Education
100 N. First St.
Springfield, IL 62777

INDIANA
Board of Vocational & Technical Educ.
Illinois Bldg., Rm. 401
Indianapolis, IN 46204

IOWA
Area Schools & Career Education
Dept. of Public Instruction
Grimes Bldg.
Des Moines, IA 50319

KANSAS
Vocational Education Administration
Dept. of Education
120 E. 10th St.
Topeka, KS 66612

KENTUCKY
Bureau of Vocational Education
Dept. of Education
Capital Plaza Tower
Frankfort, KY 40601

LOUISIANA
Vocational Programs
Dept. of Education
419 North St.
Baton Rouge, LA 70804

MAINE
Bureau of Vocational Education
Dept. of Educational & Cultural Ser.
State House
Augusta, ME 04333

MARYLAND
Div. of Vocational-Technical Educ.
Dept. of Education
P.O. Box 8717
Baltimore, MD 21240

MASSACHUSETTS
Occupational Education
Dept. of Education
Exec. Office of Education Affairs
182 Tremont St.
Boston, MA 02111

MICHIGAN
Vocational-Technical Education Ser.
Dept. of Education
P.O. Box 3008
Lansing, MI 48909

MINNESOTA
Div. of Vocational-Technical Educ.
Dept. of Education
550 Cedar St.
St. Paul, MN 55101

MISSISSIPPI
Div. of Vocational Education
Dept. of Education
501 Sillers Bldg.
Jackson, MS 39202

MISSOURI
Div. of Career & Adult Education
Dept. of Elementary & Secondary Educ.
Jefferson State Office Bldg.
Jefferson City, MO 65101

MONTANA
Advisory Council for Voc. Educ.
Dept. of Education
1100 N. Last Chance Gulch
Helena, MT 59601

NEBRASKA
Div. of Vocational Education
Dept. of Education
301 Centennial Mall, S.
Lincoln, NE 68509

NEVADA
Office of Accountability
Dept. of Education
400 W. King St.
Carson City, NV 89710

NEW HAMPSHIRE
Div. of Voc.-Tech. Education
Dept. of Education
105 Loudon Rd.
Concord, NH 03301

NEW JERSEY
Div. of Vocational Education
Dept. of Education
225 W. State St.
Trenton, NJ 08625

NEW MEXICO
Vocational Education
Dept. of Education
Education Bldg.
Santa Fe, NM 87503

NEW YORK
Office of Occupational & Continuing Educ.
Education Dept.
99 Washington Ave.
Albany, NY 12230

NORTH CAROLINA
Advisory Council on Vocational Educ.
North Carolina State University
P.O. Box 5312
Raleigh, NC 27607

NORTH DAKOTA
Board for Vocational Education
900 East Blvd.
Bismarck, ND 58505

OHIO
Div. of Vocational Education
Dept. of Education
65 S. Front St.
Columbus, OH 43215

OKLAHOMA
Dept. of Vocational & Technical Educ.
1515 W. 6th Ave.
Stillwater, OK 74074

OREGON
Career & Vocational Education
Dept. of Education
942 Lancaster Dr., NE
Salem, OR 97310

PENNSYLVANIA
Bureau of Vocational Education
Dept. of Education
116-A Executive House
Harrisburg, PA 17120

RHODE ISLAND
Bureau of Vocational-Technical Educ.
Dept. of Education
22 Hayes St.
Providence, RI 02903

SOUTH CAROLINA
Advisory Council on Voc. & Tech Educ.
809 SCN Center
Columbia, SC 29201

Board for Technical and Compre. Educ.
1429 Senate St.
Columbia, SC 29201

SOUTH DAKOTA
Div. of Vocational & Technical Educ.
Dept. of Education & Cultural Affs.
State Office Bldg.
Pierre, SD 57501

TENNESSEE
Comprehensive Vocational Education
Dept. of Education
243 Cordell Hull Bldg.
Nashville, TN 37219

TEXAS
Advisory Council for Tech./Voc. Educ.
Education Agency
815 Brazos St.
Austin, TX 78701

UTAH
Voc./Tech. Education
Board of Education
250 E. 500 South St.
Salt Lake City, UT 84111

VERMONT
Vocational Education Div.
Dept. of Education
120 State St.
Montpelier, VT 05602

VIRGINIA
Div. of Vocational Education
Dept. of Education
8th Street Office Bldg.
Richmond, VA 23219

WASHINGTON
Commission for Vocational Education
Thurston Airdustrial Park, Bldg. 17
Olympia, WA 98504

WEST VIRGINIA
Vocational, Technical, & Adult Educ.
Dept. of Education
Capitol Complex, Bldg. 6, Rm 358
Charleston, WV 25305

WISCONSIN
Bd. of Voc., Tech. & Adult Educ.
Hill Farms State Office Bldg.
Madison, WI 53702

WYOMING
Occupational Education
Dept. of Education
Hathaway Bldg.
Cheyenne, WY 82002